UNION OF MYANMAR
MINISTRY OF HEALTH
DEPARTMENT OF MEDICAL SCIENCE

UNIVERSITY OF DENTAL MEDICINE , MANDALAY

HAND BOOK

2007-2008

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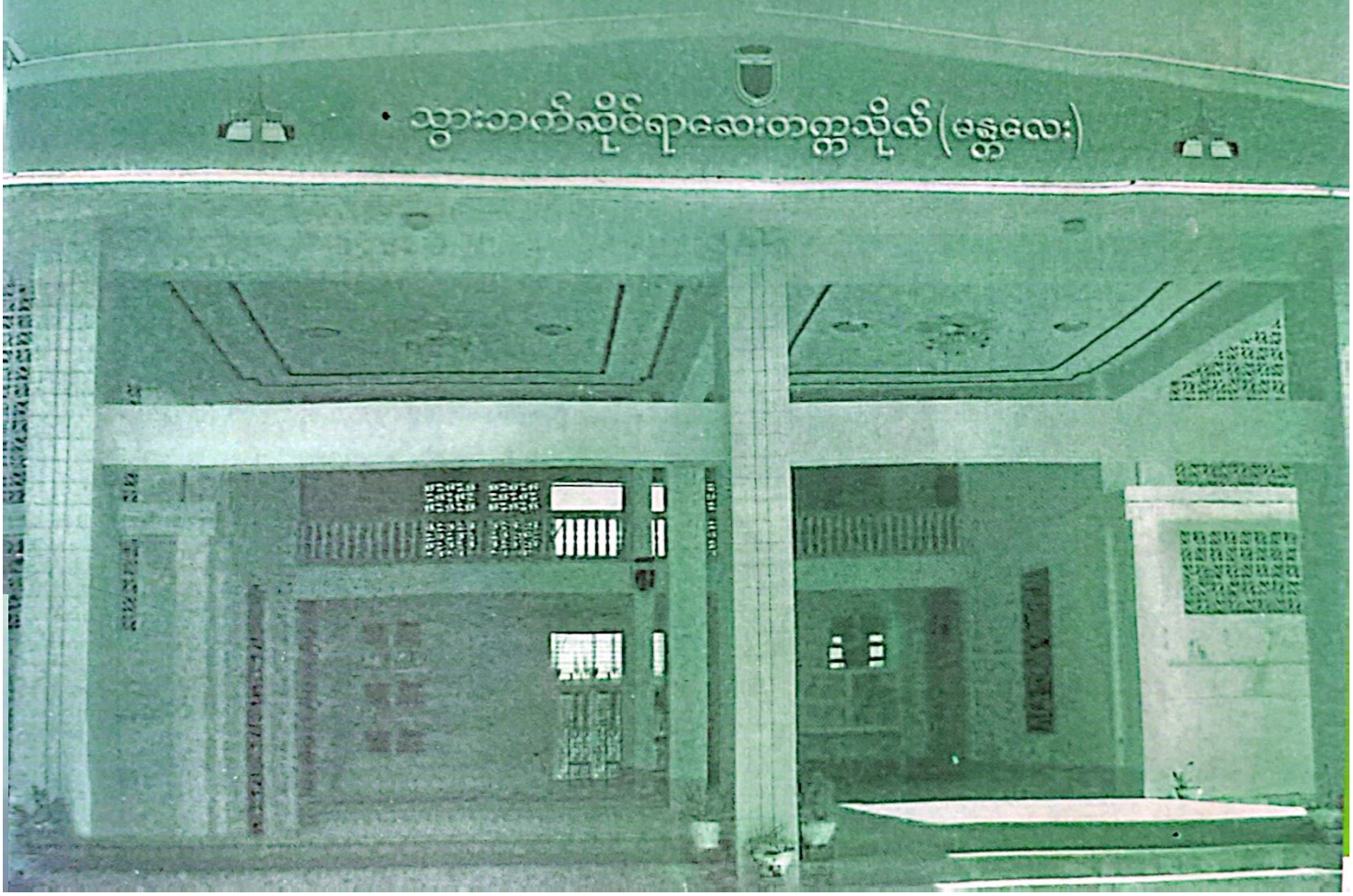

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Prof. Dr. Mya Thaw

B.D.S,M.Sc.D.(Wales U.K),F.I.C.D (USA)

Rector

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CONTENTS

	Page
Foreword by Rector	1
History of the Institute	2
Institutional Objectives	3
Administration	
The Administrative Board and its duties	4
Administrative Staff	6
Academic Body	
Academic Board and its duties	7
Support Facilities and Services	
Medical Education Unit	11
Library	12
General Information	
Admission and Selection of Students	13
Undergraduate B.D.S Course	13
Financial Aids	13
Scholarships	13
Stipends	13
Degrees offered	13
Student Population	15
Vacations	15

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Departments

Myanmar	16
Mathematics	19
English	22
Chemistry	25
Physics	28
Zoology	31
Botany	34
Anatomy	38
Physiology	44
Biochemistry	49
Oral Biological Science	54
Pharmacology	58
Pathology	63
Microbiology	67
Preventive and Social Medicine	71
Prosthodontics	74
Conservative Dentistry	80
Periodontology and Preventive & Community Dentistry	85
Children's Dentistry and Orthodontics	89
Oral Medicine	93
Oral & Maxillofacial Surgery	98

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FOREWORD BY THE RECTOR

The Ministry of Health is now upgrading and strengthening medical and health related insituitions under it to enhance quality of teaching and production of proficient human resources for health. In accordance with the objectives of the Ministry, this University was established in 1998.

It is hoped that this book, although being the first handbook, will serve as a useful basic reference source for related professional students and those interested in the pursure of dentistry.

It is indeed a great pleasure and an honour , as the Rector of this University to express my deepest graditude to all the teaching and administrative staff for their endavour to produce highly proficient dental professionals for the oral health care of the future.

Prof. Mya Thaw
Rector
University of Dental Medicine
Mandalay

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UNIVERSITY OF DENTAL MEDICINE, MANDALAY

HISTORICAL BACKGROUND

With the guidance of the Head of State, for the equality of health care and health related human resource development of upper and lower Myanmar, the University of Dental Medicine Mandalay was established on 1st October 1998.

The first Rector of the University was appointed on 23th October 1998. The plot for the construction of this University was allowed at 62nd street, Bock 1, Chan - Mya - Thazi township, annex to sourthen block of 300 bedded teaching hospital by the Head of State on 22nd September 1999 during his inspection tour of Mandalay Division.

The University of Dental Medicine initiated with the 1st batch of (90) students, according to their order of merit base on the aggregate marks obtained in the Basic Education High School Examination.

They were temporarily attached to the University of Medicine, Mandalay. The Rector office was also temporarily opened at the 2nd floor of the University of Medicine, Mandalay.

Construction of new building was started on 24th February 2000, after the foundation being laid down by the Commander of the Central Command on 18th Februarey 2000. On 11th December 2000, teaching programme were shifted to 62nd street, University of Dental Medicine (A) building and Pre - medical building on 60th street. Construction programmed were continued.

The University of Dental Medicine, Mandalay, held its 1st graduation ceremonary on 26th November 2005.

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INSTITUTIONAL OBJECTIVES

The objective of dental education is to produce dental practitioners who are socially conscious, community oriented, professionally skillful, and technically competent. The graduate of the institute should be: -

1. able to abide by the guidelines and general health policies laid down by the State and implement accordingly.
2. capable of effective actions using the knowledge, skill and attitude for the preventive, curative, and rehabilitative oral health needs of the country.
3. capable of maintaining and improving the quality by continuing education and research.
4. be aware of the professional ethics and abide by it codes.

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ADMINISTRATION

The Administrative Board and its duties

1. Prof. Dr.Mya Thaw	Rector University of Dental Medicine Mandalay	Chairperson
2. Prof. Dr. Than Win	Rector University of Medicine Mandalay	Member
3. Prof. Dr. Khin Nyunt Than	Rector University of Nursing Mandalay	Member
4. U Khin Maung Than	Secretary, Divisional Peace & Development Council, Mandalay Division	Member
5. Dr. Khin Maung Tun	Division Health Director Mandalay Health Division	Member
6. Dr. Maung Win	Medical Superinterdent Mandalay General Hospital	Member
7. Prof. Dr. Htay Htay Yi	Prof/Head Oral & Maxillofacial Surgery University of Dental Medicine Mandalay	Member
8. Prof. Dr. Shwe Toe	Prof/Head Oral Medicine University of Dental Medicine Mandalay	Member
9. U Aung Tun Hla	Registrar University of Dental Medicine Mandalay	Secretary

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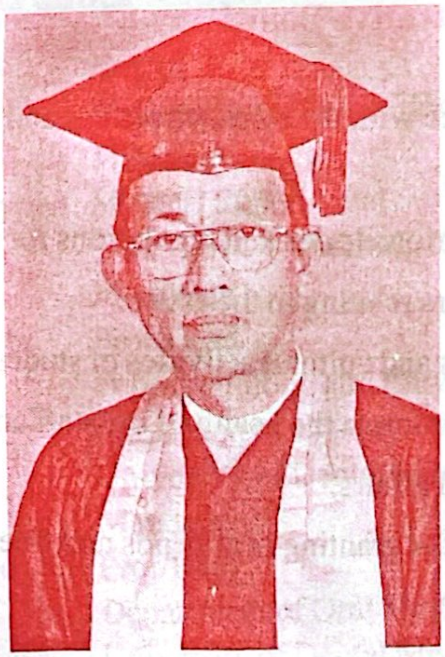

U Aung Tun Hla
B.Sc (Zool:)
Registrar

Daw Nwe Nwe Lwin
B.Com
Account Officer

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Duties of the Administrative Board

1. To act in accordance with the rules, directives and orders relating to financial matters.
2. To prescribe and enforce rules and regulations for students.
3. To supervise matters relating to the estate.
4. To supervise sports and cultural activities of students.
5. To supervise and promote the health of the staff and students.
6. To supervise hostel affairs.
7. To recommended the granting of stipends and free tuition.

Administrative Staff

Rector

Prof. Dr. Mya Thaw, B.D.S, M.Sc.D. (Wales U.K), F.I.C.D (USA).

Head (Administration & Finance)

U Aung Tun Hla, B.Sc (Zoology)

Assist. Registrar

Vacant

Account Officer

Daw Nwe Nwe Lwin, B.Com

Office Superintendent (Administrative)

U Hla Win, B.A (Geo:)

Librarian

Vacant

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Academic Board and its duties

1. Prof. Dr.Mya Thaw	Rector University of Dental Medicine Mandalay	Chairperson
2. Dr. Khin Maung Pyone	Medical Superindent (300) bedded Teaching Hospital Mandalay,	Member
3. Prof. Dr.Tin Tun Hla	Prof/Head Periodontology and Preventive & Community Dentistry University of Dental Medicine Mandalay	Member
4. Prof. Dr. Shwe Toe	Prof/Head Department of Oral Medicine University of Dental Medicine Mandalay	Member
5. Prof. Dr. Sun Sun Win	Prof/Head Department of Orthodontics & Paedodontics University of Dental Medicine Mandalay	Member
6. Prof. Dr. Htay Htay Yi	Prof/Head Deapartment of Oral & Maxillofacial Surgery Mandalay	Member
7. Dr. Myint Myint San	Postgraduate Lecturer/Head Department of Conservative Dentistry University of Dental Medicine Mandalay	Member
8. Dr. Ko Ko	Postgraduate Lecturer/Head Department of Prosthodontics University of Dental Medicine Mandalay	Member
9. Prof. Dr. Thit Lwin	Prof/Head Department of Surgery Universityof Medicine, Mandalay	Member

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10. Prof. Dr. Aung Kyi	Prof/Head Department of Medicine University of Medicine, Mandalay	Member
11. Prof.Dr. San San Nwe	Prof/Head Department of Pharmacology University of Medicine, Mandalay	Member
12. Prof.Dr. Saw Ai Yang	Prof/Head Department of Anatomy University of Medicine Mandalay	Member
13. Dr. Than Tun	Lecture / Head Department of Physiology University of Dental Medicine Mandalay	Member
14. Dr. Bo Bo	Lecture / Head Department of Oral Biological Science University of Dental Medicine Mandalay	Member
15. Dr. Khin Khin	Lecture / Head Department of Preventive & Social Medicine University of Dental Medicine Mandalay	Member
16. Dr. Khin Marlar Win	Lecture / Head Department of Pathology University of Dental Medicine Mandalay	Member
17. Dr. Win Mar	Lecture / Head Department of Biochemistry University of Dental Medicine Mandalay	Member
18. Dr. Khin Nyein Wan	Lecture / Head Department of Microbiology University of Dental Medicine Mandalay	Member

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19. Daw. Mi Mi Khing	Lecture / Head Department of Zoology University of Dental Medicine Mandalay	Member
20. Daw. Mya Mya Than	Lecture / Head Department of Physics University of Dental Medicine Mandalay	Member
21. Daw. Aye Mon Ko	Lecture / Head Department of English University of Dental Medicine Mandalay	Member
22. Daw Lwin Min Min Aye	Lecture / Head Department of Mathematics University of Dental Medicine Mandalay	Member
23. Daw Aye Aye Maw	Lecture / Head Department of Botany University of Dental Medicine Mandalay	Member
24. Daw. Nwe Nwe Win	Lecture / Head Department of Myanmar University of Dental Medicine Mandalay	Member
25. Dr. Ni Ni	Lecture / Head Department of Chemistry University of Dental Medicine Mandalay	Member
26. U Aung Tun Hla	Registrar University of Dental Medicine Mandalay	Secretary

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Duties of the Academic Board

1. To collaborate with the various Boards of Studies and prescribe courses keeping with the political, economic and social systems of the Union.
2. To inspect the curricula and syllabi put up by the various Boards of Studies, approve, and forward them to the Council of Uiversities Academic Boards. Also, to supervise whether teaching is in accordance with the approved curricula and syllabi.
3. To hold examinations and publish the results.
4. To confer degrees, diplomas and award prizes.
6. To scrutinize and prescribe textbooks to be used at the Institute.
7. To introduce postgraduate courses in collaboration with the teaching departments.

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SUPPORT FACILTIES AND SERVICES

UNIVERSITY OF DENTAL MEDICINE, MANDALAY

MEDICAL EDUCATION UNIT

The Medical Education Unit has been in existence at the University since 1992. The unit has main committee includes 9 members. The following are the members of the main committee.

Patron	Prof.Dr. Mya Thaw	Rector, University of Dental Medicine, Mandalay.
Chairperson	Prof.Dr. Tin Tun Hla	Professor and Head Department of Periodontology and Preventive & Community Dentistry.
Member	Prof. Dr. Htay Htay Yi	Professor and Head Department of Oral & Maxillofacial Surgery
Member	Prof. Dr. Shwe Toe	Professor and Head Department of Oral Medicine
Member	Prof. Dr. Sun Sun Win	Professor and Head Department of Children's Dentistry and Orthodontics.
Member	Dr. Ko Ko	Post-graduate Lecturer and Head Department of Prosthodontics
Member	Dr. Myint Myint San	Post-graduate Lecturer and Head Department of Conservative Dentistry
Member	Dr. Than Htun	Lecturer and Head Department of Physiology
Member	Daw Mi Mi Khine	Lecturer and Head Department of Zoology
Secretary	Dr. Tin Maw	Lecturer Department of Preventive and Community Dentistry

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Duties of the unit

1. To evaluate current teaching practice at the University of Dental Medicine, Mandalay.
2. To collect information regarding new tools, techniques and methods being used elsewhere in the teching of dentistry.
3. To develop new and better tools, techniques and methods applicable to the teaching of dentistry.
4. To evaluate the newly developed tools, techniques and methods.
5. To recommend for general user the evaluated tools, techniques and methods, which were found to be significantly better than those being currently used in Myanmar.

THE LIBRARY

Duties of the Library Committee

1. To maintain existing books, journals, office equipments and other library facilities so as to be in good order and condition.
2. To expand the library collection and to continually obtain up to books and journals.
3. To catalog books and journals for easy reference.
4. To make availble a photocopying service for teaching staff and students at reasonable price.
5. To distribute information to all departments regarding acquisition of new books, journal, CDROM, etc.
6. To give service and creatd an enviroment conductive to the advancement of medical education.

Services Offered By Library

1. Fulfilling the literary needs of -
   (a) the teaching staff of the University of Dental Medicine.
   (b) undergraduate and postgraduate dental students
   (c) research personal
2. Availability of interlibrary loan
3. Easy accessibility of photocopying service at reasonable price
4. Online reference search for postgraduate students and faculty members.

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GENERAL INFORMATION

Admission and Selection of Students

Undergraduate B.D.S Course

Students who have passed the Basic Education High School Examination may apply for admission to the First Year B.D.S. Admission is granted in order of merit based on the agregate marks obtained in the Basic Education High School Examination. Selection is done by the Central Selection Board of the Universities Central Council.

Students who have passed the General Certificate of Education (GCE) O.Level and other requivalent examinations conducted by foreign universities are given individual consideration on application for admission to the Institute.

Ordinarily, only citizens of Union of Myanmar are admitted to the University. However, relatives of the foreigners employed by the Government of the Union of Myanmar and foreign students permitted by the Government are also admitted.

Applicants may also be required to appear for personal interview.

FINANCIAL AIDS

Scholarships

Scholarships are awarded to first year B.D.S students who have been chosen as "outstanding students" at high school level lexamination (BEHS Exam). The scholarship is also awarded to those students who again any position in the first 100 in studend's conduct and educational records are satisfactory.

Stipends

Studends who wish to pursue university education but have fiancial difficulties may apply for stipend to the Township Peace and Development Councils

DEGREES OFFERED

* BDS (Mdy)

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The B.D.S Course covers a period of five and a half years as follow:

Year of study	Duration	Subjects
1st B.D.S	1 year	Myanmar, English, Mathematics, Chemistry Physics, Zoology, Botany Science
2nd B.D.S	1 year	Anatomy, Physiology, Biochemistry, Oral Biological Science
3rd B.D.S	1 year	Pharmlogy, Pathology, Micrology, Department of Prosthodontics, Depatment of Conservative Science.
4th B.D.S	1 year	Department of Oral Medicine, Department of Maxillofacial surgery, G.Medicine, G.Surgery Department of Periodontology and Preventive & Community Dentisity, Department of Children's Dentisity and Orthodontics, Department of Preventive and Social Medicine.
5th B.D.S	1 year	Department of Oral Medicine, Department of Maxillofacial Surgery, Department of Prosthodontics, Department of Conservative, Department of Children's Dentisity and Orthodontics, Department of Periodontology and Preventive & Community Dentistry
Internship	6.Month	Department of Oral Medicine, Department of Maxillofacial Surgery, Department of Prosthodontics, Department of Conservative, Department of Children's Dentisity and Orthodontics, Department of Periodontology and Preventive & Community Dentistry
Total	5½ Year	

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STUDENT POPULATION

Undergraduate B.D.S course (2007-2008) academic year

Sr.No	Class	No. of Students		
		Male	Female	Total
1.	1st year BDS (12/2007)	120	29	149
2.	2nd year BDS (1/2008)	116	35	151
3.	3rd year BDS (1/2008)	146	27	173
4.	4th year BDS (1/2008)	126	40	166
5.	Final year BDS (1/2008)	105	37	142
6.	Final year BDS (1/2007) Supply	20	1	21
7.	H / S	26	18	44
	Total	659	187	846

List of Graduates

VACATIONS

1st April 30th April

(Postgraduate programmes continue during the vacation.)

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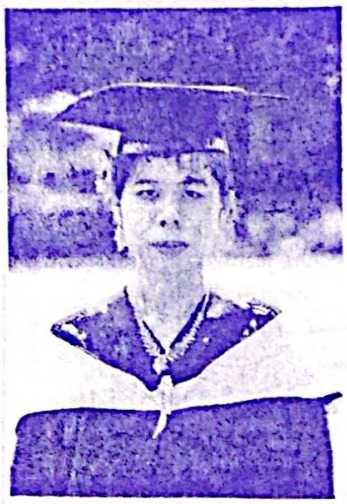
DEPARTMENT OF MYANMAR



Daw Nwe Nwe Win, M.A (Myanmar)
Lecturer and Head

Tutor, Institute of Community Health Aung San, Yangon	- (1997)
Tutor, Institute of Community Health, Magway	- (2000)
Assistant Lecturer, Institute of Medicine (2), Yangon	- (2002)
Lecturer and Head, University of Dental Medicine, Mandalay	- (2004 onwards)

History of the Department

Institute of Dental Medicine, Mandalay was first established on 29th November 1999 at the Institute of Medicine, Mandalay. The Myanmar course at the Institute of Dental Medicine started in (1999-2000) academic year with (80) matiulated students. Myanmar Department was run by the heads of the Department, Daw Ohmar Mying (1999-2001), Daw Swe Swe Han (2001-2003) and Daw Khing Yin Win (2003-2004) and staff members.

On 11th December 2000, the Institute was moved to 62nd street, Myothit Chan Mya Tharzi Township, Mandalay.

On 19th May 2004, the present Head Daw Nwe Nwe Win became Lecturer and Head of Myanmar Department of the University of Dental Medicine.

The Department now has a Head (Lecturer) and two tutors. It is run by the present Head Daw Nwe Nwe Win and the staff members. Myanmar is taught as a subject only to the first year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Nwe Nwe Win, M.A

Assistant Lecturer

1. Daw Ni Ni Hlaing, M.A

Tutors

1. Daw Khing Khing Win, M.A
2. Daw Tin Tin Aye, M.A

Curriculum

1st years B.D.S - One year course

Method of Teaching

Didactic Lecturer	-	42 hours
Tutorial work	-	35 hours
Class Test	-	3 hours
Total	-	80 hours

သင်ရိုးမာတိကာ

၁။ ရေးဟန်အတတ်ပညာ

(က) စာရေးခြင်းအခြေခံစည်းမျဉ်း

(ခ) စာရေးနည်း (၄) မျိုး

(ဂ) လက်တွေ့ရေးသားလေ့ကျင့်ခြင်း

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၂၊ စာစီစာကုံးရေးသားခြင်း

(က) စာစီစာကုံးအမျိုးအစားများခွဲခြားခြင်း

(ခ) စာစီစာကုံးရေးသားရန်အကြောင်းရှာခြင်း

(ဂ) စာစီစာကုံးနှင် စိတ်ကူးဉာဏ်

(ဃ) စာစီစာကုံးအဂါရပ်များ

၃၊ ဘာသာပြန်ခြင်း

(က) ဘာသာပြန်နည်းပညာ

(ခ) ဝါကျတိုဘာသာပြန်ခြင်း

(ဂ) ဝါကျရှည်ဘာသာပြန်ခြင်း

(ဃ) စာပိုဒ်ဘာသာပြန်ခြင်း

၄၊ အဘိဓာန်

အဘိဓာန်စဉ်နည်းနှင့် အဘိဓာန်စကားလုံးများသင်ကြားခြင်း

၅၊ အနှစ်ချုပ်ရေးသားခြင်း

(က) အကြောင်းအရာတစ်ခုကို အချက်အလက်ထုတ်ခြင်း

(ခ) ထုတ်ထားသော အချက်အလက်များကို မိမိစကားဖြင့် ပြန်ရေးခြင်း

၆၊ သုတ ၊ ရသ ကောက်နုတ်တင်ပြခြင်း

စကားပြေ ၊ ကဗျာ

(က) စကားပြေ၊ ကဗျာတစ်ပုဒ်ကို ဖတ်ပြီး သုတသနကောက်နုတ်တင်ပြခြင်း

(ခ) ထိုစာပေမှဆက်နွယ်၍ ရရှိသော သင်ခန်းစာ၊ အဆုံးအမ၊ ကျင့်ဝတ်များကို မှတ်သားခြင်း။

(ဂ) မိမိ၏ ထင်မြင်ယူဆချက်၊ ဝေဖန်ချက် ဖော်ပြခြင်း

Student Assessment

1. Continuous Assessment

Weightage	
1.1. Weekly tutorial	10 %
1.2. Theory Test I (2 hours)	10 %
1.3. Theory Test II (1 hour)	10 %

2. Summative Assessment

2.1. Method	Written
2.2. Question type	M.S.Q, Essay
2.3. Venue	Exam Hall
2.4. Weightage	70%

3. Pass mark	50 % above
4. Distinction mark	75 % above

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DEPARTMENT OF MATHEMATICS

Daw Lwin Min Min Aye
B.Sc, M.Sc.
Lecturer and Head

Tutor, Department of Mathematics, University of Mandalay - (1986)
Tutor, Department of Mathematics, ShweBo Degree Collage - (1993)
Assistant Lecturer, Department of Mathematics, ShweBo Degree Collae - (1994)
Lecturer, Department of Mathematics, ShweBo Degree Collage - (1999)
Lecturer and Head, Institute of Dental Medicine, Mandalay - (2000-onv·ards)

History of the Department

Institute of Dental Medicine was first establishd in 1999, November, 29th at the Institute of Medicine, Mandalay. The Mathematics course at the Institute of Dental Medicine started in (1999-2000) academic year with (80) matriculated students. At that time, the department was run by Daw May Nwe Kywe Aye, tutor of the Institute of Dental Medicine with the help of the staff from the Institute of Medicine, Mandalay.

On 10th April, 2000, the present Head Daw Lwin Min Min Aye become Lecturer and Head of the Mathematics Department of the Institute of Dental Medicine, Mandalay.

On 11th December, 2000, the Instittue was moved to 62nd street, Myothit, Chan Mya TharZi Township, Mandalay.

The department now has a Head (Lecturer), one assistant lecturer and two tutors staff. It is run by the present Head Daw Lwin Min Min Aye and the staff membres. Mathematics is taught as a subject only to the first year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Lwin Min Min Aye, B.Sc, M.Sc

Assistant Lecturer

1. Daw Aye Thanda Swe, B.Sc, M.Sc

Tutors

1. Daw Mya Mya Min, B.Sc, M.Sc
2. Daw San Ra, B.Sc, M.Sc

Curriculum

1st years B.D.S - One year course

Method of Teaching

Lecturer	45 hours
Tutorial	3 hours
Class Test	2 hours
Total	**50 hours**

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Course Outline

1. Integral Calculus

Definitions and Methods of Integrals, Area under the curves, Ordinary differential equations.

2. Probability

Permutation and combination, conditional probability.

3. Statistics

3.1. Statistics

Quartiles percentiles, Interquartile range,the mean deviation from the mean, standard deviation and variance, standard deviation data in the form of a frequency distribution.

3.2. Probabililty Distribution

Discrete and continuous random vriables, expectation of x and f(x), variance of random variable, cumulative distribution function, binomial distribution.

3.3. Normal Distribution

Definition expectation and variance, normal approximation to the binomial distribution, poisson distribution.

3.4. Chi - Square - Test

The Chi - Square distribution, the Chi - Square - test, uniform distribution and good ness of fit test.

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DEPARTMENT OF ENGLISH

Daw Amon Koe
M.A (English)
Lecturer and Head

Tutor, Institute of Medicine (1), Yangon - (1992)
Tutor, Institute of Medicine, Mandalay - (1990)
Assistant Lecturer, Institute of Medicine, Mandalay - (2000)
Lecturer and Head, University of Dental Medicine, Mandalay - (2001-onwards)

History of the Department

The Institute of Dental Medicine, Mandalay was first established on 19th the November 1999 at the Institute of Medicine, Mandalay, in Chan Aye Tharzan Township, Mandalay. In the academic year 1999-2000, the English course at the Institute of Dental Medicine began with (80) students. Then, the Head and the staff members of the Institute of Medicine, Mandalay took responsibility in teaching English.

On the 11th December 2000, the Institute was moved to the 62nd street, Myothit, Chan Mya Tharzi Township. It was run by U Aung Thein Tun, Head of English Department of the Instittue of Medicine, Mandalay and U TheinZaw Moe, tutor of English Department of the Institute of Dental Medicine, Mandalay. On the 3rd August 2001, the present Head Daw Amon Koe became the Lecturer and Head of English Department in this University. The department has a Head (Lecturer) an assistant lecturer and three tutors at present. One of the tutors is an on loan staff from the University of Medicine, Mandalay. English is taught only to the first year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Amon Koe, M.A (English)

Assistant Lecturer

1. Daw Myint Myint Aye, B.A (English), Dip in English Language, Teaching Methodolgy, M.A (Teaching English as a foreign Language)

Demonstrators

1. U Thein Zaw Moe, B.A (English)
2. Daw Kyu Kyu Aye, B.Sc, (Marine Science) Dip in English (U.F.L)
3. Daw Soe Soe Swe, M.A (English)
   (on loan staff from I.M.M)

Curriculum

1st years B.D.S - One year course

Method of Teaching

Lecturer	147	hours
Tutorial	17	hours
Test	6	hours
Total	**170**	**hours**

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Course Outline

1. **Listening**
   Articles From
   - (a) Going places
   - (b) Look ahead
   - (c) Listening practice for IELTS.
2. **Speaking**
   - (a) General
   - (b) English in Medicine
3. **Reading**
   - (a) Medically related passages
   - (b) Ethical issues.
4. **Vocabulory Development**
5. **Grammar and Syntax**
   - (a) Articles
   - (b) Adjectives of quantity
   - (c) Subject - Verb Aggrement
   - (d) Prepositions
   - (e) Passive Voice
   - (f) Conditionals
   - (g) Tenses
   - (h) Sentence Construction
6. **Writing Composition**
   - (a) Summary
   - (b) Dialogue
   - (c) Essay

Student Assessment

1. Formative Assessment

Weekly tutorial ----------	10 %
Test (1) ----------	10 %
Test (2) ----------	10 %
Total	**30 %**

2. Summative Assessment

One three hour written test ---------- 70 %

Question type-multiple choice questions multiple short questions and essay type questions (or) writing) notes (or) memos.

3. Criteria for Promotion

Pass marks ---------- 50 %

Distinction marks --------- 75 %

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DEPARTMENT OF CHEMISTRY

Daw Ni Ni
B.Sc, M. Phil, M.Sc
Lecturer and Head

Demonstrator, Regional college, Mandalay - (1978-1981)
Regional college, Mandalay and University of Mandalay- (1981-1986)
Pakokku college, Pakokku - (1986-1989)
University of Mandalay - (1989-1992)
Assistant Lecturer, University of Mandalay - (1992-1996)
Monywa Degree College, Monywa - (1996-1997)
Lecturer, University of Monywa - (1997-1998)
University of Mandalay - (1998-2001)
Kalay Degree College, Kalay (2001-2003)
Institute of Dental Medicine, Mandalay- (2003-2004)
Lecturer and Head, University of Dental Medicine, Mandalay (2004-onwards)

History of the Department

Institute of Dental Medicine was first establishd in 1999, November, 29th at the Institute of Medicine, Mandalay. The chemistry course at the Institute of Dental Medicine started in (1999-2000) academic year with (80) matriculated students. At that time, it was run by the head of chemistry department Daw Si Si and staff members.

On 11th December 2000, the Institute was moved to 62nd street, Myothit, Chan Mya Thar Zi Township, Mandalay.

On 8th November 2004, the present Head Daw Ni Ni become Lecturer and Head of the chemistry department of the University of Dental Medicine, Mandalay.

The department now has a Head (Lecturer), one assistant lecturer, three demonstrators, and one laboratory staff. It is run by the present Head Daw Ni Ni and the staff members. Chemistry is taught as a subject only to the first year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Ni Ni, B.Sc, M.Phil, M.Sc

Assistant Lecturer

1. Daw Athy Tun, B.Sc (Hons:), M.Sc, Dip in English.

Demonstrators

1. Daw Khin San Lwin, B.Sc(Hons:), M.Sc, Dip in English, H.G.P
2. U Nay Myo Ni, B.Sc (Hons:), M.Sc
3. Daw Chaw Chaw Su Aung, B.Sc. M.Sc (Chem) M.Res (Chem) (on Loon staff from U.M.M)

Curriculum

1st year B.D.S One year course

Method of Teaching

Lecture	94	hours
Practical	30	hours
Class Tests	6	hours
Total	**130**	**hours**

Course Outline

1. Cell Biology

Basic chemical foundation for cells, chemical bonding, Life essential elements, Free radicals, Solution - Concentration, Aliphatic hydrocarbon, Aromatic hydrocarbon.

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2. Physical Chemistry

Gaseous state, Adsorption, Colloids.

3. Acid - base and buffer

Definition of acid and base, pH scales, buffer solution, hydrolysis of salts.

4. Chemical Thermodynamics

Chemical kinetic.

5. Oxidation and Reduction

To remove stain, To remove bacteria, Tooth decay and Fluoridation.

6. Heavy Metal

Occurance, Chemical and Physical properties, Usage.

7. Chemical Aspect of Metabolism

Carbohydrates, Amino acid and protein, Fats and Lipids.

8. Stereoisomerism

Stereoisomerism, Geometrical isomerism.

Student Assessment

1. Class - Work

1.1. Weekly practical and assignment	5%
1.2 Practical test one time a year	5%
1.3 Theory class tests two times a year	
Theory Test (1)	10%
Theory Test (2)	10%
Class work weightage	**30%**

2. One Final Examination at the end of the academic year.

3. Final Examination will consist of

3.1 One three - hours theory paper (M.C.Q and M.S.Q)	50%
3.2 One three - hour practical	20%
Total	**70%**

4. Final Assessment:

4.1. Performance in weekly practical and test.

4.2. Performance in the final examination.

5. Pass Marks

Pass marks	50%
Distinction	80 %

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DEPARTMENT OF PHYSICS

Daw Mya Mya Than, M.Sc
Lecturer and Head

Demonstrator, Myitkyina Degree College - (1986)
Demonstrator, Mandalay University - (1989)
Assistant Lecturer, Mandalay University - (1994)
Assistant Lecturer, Institute of Education, Mandalay - (1995)
Demonstrator, Institute of Medicine, Mandalay - (1996)
Assistant Lecturer, Institute of Dental Medicine, Mandalay - (1999)
Lecturer and Head, Institute of Dental Medicine, Mandalay - (2001-onwards)

History of the Department

Institute of Dental Medicine was establishd on 1st October 1998 according to the new set up.

In 1999, the Physics course at the Institute of Dental Medicine (Mandalay) started in (1999-2000) academic year with 74 matriculated students. The only first year students are taught physics subjects.

At that time, the head of the Physics Department was Daw Khin Ohn Myint. In August 2001, she was transferred to Institute of Nursing, Yangon. Then the present Head Daw Mya Mya Than became Lecturer and Head of the Department.

The Department is run by a head, one assistant lecturer, two demonstrators and only one laboratory staff.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Mya Mya Than, M.Sc

Assistant Lecturer

1. Daw Mu Mu Thet, M.Sc

Demonstrators

1. Daw Swe Zin Thein, M.Sc
2. Daw Khin Thida Tun,M.Sc. on loon staff from U.M.M

Curriculum

1st years B.D.S - One year course

Method of Teaching

Lecture	73 hours
Laboratory work	22 hours
Class Tests	5 hours
Total	**100 hours**

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Course Outline

1. Mechanics

1.1. Physics of body mechanics.
1.2. Energy in human body
1.3. Machine
1.4. Properties of liquid
1.5. Pressure

2. Heat

3. Electricity and Magnetism

4. Wave Motion

4.1. Sound and wave motion

5. Light

6. Modern Physics

6.1. Atomic physics
6.2. Nuclear physics

Student Assessment

1. Class - Work

1.1. Weekly practical and tutorial
1.2. Practical test once a year
1.3. Theory class test twice a year

2. One Final Examination at the end of the academic year.

3. Final Examination which consists of:

3.1 One three - hour theory paper
3.2 One three - hour practical

4. Final Assessment:

4.1 Performance in weekly practical, tutorial and tests
4.2 Performance in the final examination.

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DEPARTMENT OF ZOOLOGY

Daw Mi Mi Khine, M.Sc.
Lecturer and Head

Demonstrator, Institute of Medicine, Mandalay - (1987)
Demonstrator, Institute of Medicine (2), Yangon - (1990)
Demonstrator, Institute of Medicine, Mandalay - (1992)
Assistant Lecturer, Institute of Medicine, Mandalay - (1997)
Lecturer and Head, Institute of Dental Medicine, Mandalay - (2000-onwards)

History of the Department

Institute of Dental Medicine, Mandalay was established on 1st October 1998 according to the new set up. In 1999, the Zoology course at the Institute of Dental Medicine started in (1999-2000) academic year with 74 matriculated students. The only first year students are taught Zoology subjects. At that time, the Head of the Zoology Department was Daw Win Win Myint. On February 2000, she was transferred to Institute of Dental Medicine, Yangon. Then the present Head Daw Mi Mi Khine became Lecturer and Head of the department. The department is run by a head, one assistant lecturer, two demonstrators and two laboratory staff.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Mi Mi Khine, M.Sc.(Zool.)

Assistant Lecturer

1. Daw Myo Thida Aye, M.Sc. (Zool.)

Demonstrators

1. Daw Naing Naing Win, M.Sc. (Zool.)
2. Vacant
3. Daw Myint Myint, M.Sc.(Zool.) on loan staff from UMM

Curriculum

1st years B.D.S - One year course

Method of Teaching

Didactic Lecture	71	hours
Practical	24	hours
Class tests & tutorial	5	hours
Total	**100**	**hours**

Course Outline

1. The view of life

Common element of life

2. The kindoms of animal life

2.1. Early earth and the origin of life

2.2. Protista and the origin of eukaryotes

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3. Animal Behaviour

3.1. Nature of animal behaviour
3.2. Instinct and learning.
3.3. Orientation, navigation and migration

4. Ecology

4.1. The physical environment
4.2. The biologic environment
4.3. Population and community
4.4. Depletion and conservation

5. Animal Distribution

5.1. Factors regulation animal distribution
5.2. Methods of distribution
5.3. Geographic distribution
5.4. Zoogeographic regions
5.5. Introduced animals

6. Evolution

6.1. Evolution : The core theme
6.2. Darwin's theory of evolution
6.3. Evidence of evolution
6.4. Convergence and divergence
6.5. Adaptation and adaptive radiation
6.6. Dems and species

7. The human organism

7.1. The place of human in nature
7.2. The structure of humans
7.3. Natural history, distributions and numbers
7.4. Factors regulating human populations
7.5. Human characteristics
7.6. Human races, Bipedal locomotion

Student Assessment

1. Class - Work

1.1. Weekly practical
1.2. Practical test once a year
1.3. Theory class test twice a year

2. One Final Examination at the end of the academic year.

3. Final Examination with consists of:

3.1 One three - hours theory paper (M.C.Q & M.S.Q)
3.2 One two-hours practical paper.

4. Final Assessment:

4.1 Performance in weekly practical and tests
4.2 Performance in the final examination.

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DEPARTMENT OF BOTANY

Daw Aye Aye Maw
B.Sc. (Hons), M.Sc.
Lecturer and Head

Demonstrator, Institute of Medicine, Mandalay	-	(1994)
Assistant Lecturer, Institute of Medicine, Mandalay	-	(2000)
Lecturer, Institute of Medicine, Magway	-	(2001)
Lecturer and Head, Institute of Medicine, Magway	-	(2003)
Lecturer and Head, Institute of Dental Medicine	-	(2004-onwards)

History of the Department

Institute of Dental Medicine was first established in 1999, November, 29th at the Institute of Medicine, Mandalay. The botany course at the Institute of Dental Medicine started in (1999-2000) academic year with (74) matriculated students. At that time, it was run by the head of botany department Daw Mya Mya Aye and staff members.

On 11th December 2000, the Instittue was moved to 62nd street, Myothit, Chan Mya Thar Zi Township, Mandalay.

On 6th January 2003, the present Head Daw Aye Aye Maw become Lecturer and Head of the botany department of the University of Dental Medicine, Mandalay.

The department now has a Head (Lecturer), one assistant lecturer, two demonstrators, and one laboratory staff. It is run by the present Head Daw Aye Aye Maw and the staff membres. Botany is taught as a subject only to the first year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Daw Aye Aye Maw, B.Sc. (Hons:), M.Sc

Assistant Lecturer

1. Daw Tint Tint, M.Sc.(Bot:)

Demonstrators

1. Daw Hnin Yu Thwe, B.Sc., M.Sc. Dip. (Eng)
2. Daw Htoo Htoo Aung, B.Sc.,M.Sc.,M.Res.
3. Daw Nu Nu Wai, M.Sc (Bot), on loon staff from U.M.M

Curriculum

1st years B.D.S - One year course

Method of Teaching

Lecture	65	hours
Laboratory work	22	hours
Tutorial	8	hours
Class Test	6	hours
Total	**100**	**hours**

Course Outline

1. Introduction

The science of Biology.

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2. Structure and function of living and non-living component of a plant cell.

2.1. Living components

Protoplasm, Plastids, Mitochondria, Ribosomes, Golgi body, Centrosomes, Endoplasmic reticulum.

2.2. Non - Living components

Ergastic substances which are the basic requirements of human.

2.3. The plant cell cycle and cell division.

Mitosis, Meiosis, Differences between Mitosis & Meiosis.

3. Cellular level

Prokaryotes (Bacteria - harmful anf beneficial effects), Eukoryotes.

4. Medicinal plants

Medicinal effects of some plants.

5. Plant Physiology

5.1. Role of water to living cells.

Liquid mixtures, colloidal system (Nature, properties).

5.2. Different types pressure systems

Diffusion, Osmosis, Plasmolysis and Turgar pressue.

5.3. Compounds essential for life process

Enzymes; Vitamins; Plant hormones.

5.4. Capturing energy from the sun (Synthesis of organic molecules)

Energy in living system; ATP - Biological energy currency; Metabolic pathways- Energy on a cellular level.

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6. Genetics

6.1. Physical nature of gene

6.2. Mendel's Laws

6.3. Expression and interaction of genes

Complementary genes;

6.4. Multiple Alleles

Human blood groups, Rh factors.

6.5. Sex - linked genes

7. Ecology

7.1. Ecological Factors

Food chain, Food web, Food cycle, Energy chain.

7.2. Ecological plant groups

7.3. Environmental Pollution

Air pollution; Water pollution; Land pollution; Noise pollution.

Student Assessment

1. Class - Work

1.1. Weekly practical

1.2 Theory Test twice a year.

1.3 Practical Test once a year.

2. One Final Examination at the end of the academic year.

3. Final Examination with consists of:

3.1 One three - hour theory paper (M.C.Q & M.S.Q)

3.2 One two-hour practical

4. Final Assessment:

4.1 Performance in weekly practical and tests.

4.2 Performance in the final examination

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DEPARTMENT OF ANATOMY

Prof.Saw Ai Yang
M.B.B.S; M.Med.Sc(Anatomy); Ph.D(Anatomy),
Dip.Med.Education
Professor and Head

History of the Department

The department was founded by Dr. Daw San Nyo, Lecturer and Head on 1998. At first the university was situated at 73th street, between 30th and 31st streets, Chan Aye Thar Zan Township, Mandalay. Now it is moved to 62nd street.

Former Heads

1. Dr. San Nyo, M.B.B.S; M.Med.Sc(Anatomy) - (1998-2000)
2. Dr. Aung Kyi, M.B.B.S; M.Med.Sc(Anatomy), Ph.D(Anatomy) - (2000-2003)

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Vacant

The department is run by Professor / Head Saw Ai Yang, M.B.B.S; M.Med;Sc, Ph.D; Dip in Med.Ed

It is assisted by Associate Professor Aye Aye San, M.B.B.S; M.Med.Sc, Dip in Med.Ed.

Assistant Lecturer

1. Vacant

Demonstrators

1. Dr. Nan Sein Aye , M.B.B.S
2. Dr. Zaw Win Htun, M.B.B.S
3. Dr. Nyi Nyi Htun, M.B.B.S

Course

Undergraduate Course

First Year B.D.S Course

Duration of the course 60 hours

Teaching / Learning Method

Lecture	50	hours
Practical	6	hours
Completion Test	I4	hours
Total	**60**	**hours**

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Course Outline

First Year

I. General Anatomy

Bone, cartilage, joint, fascia, muscle, nervous system, endocrine system, cardiovascular system, and skin.

General Embryology

Gametogenesis, fertilization to implantation, formation of germ layers (Bilaminar germ disc and trilaminar germ disc), Teratogenesis, fetal period, fetal membrane and placenta

General Histology

Epithelial tissue, muscular tissue, connective tissue, Bone and cartilage, Nervous tissues, Vascular tissue, Lympoid tissue and skin.

Second Year

Duration of the course, one academic year.

II. Thorax

Breast, Mediastinum, Heart and Pericardium, Arch of Aorta, Pleura and lung, thoracic duct, azygous vein, Diaphragm, Thoracic Aorta and Oesophagus.

Osteology

Thoracic vertebrae, Ribs and Sternum.

Histology of thorax

lung, heart, thymus, oesophagus

Embryology

Development of heart , vertebral column, diaphragm and respiratory tract.

III.Abdomen & Pelvis

Anterior abdominal wall, Rectus sheath, Inguinal canal, 9 regions of abdomen, Abdominal cavity and lesser sac, peritoneal cavity.

Stomach, duodenum, small intestine, large intestine, rectum and anal canal, liver and biliary system, pancreas and spleen.

Kidney and suprarenal glands, ureter.

Osteology

Lumbar vertebrae & sacrum.

Histology of abdomen and pelvis

Kidney, suprarenal gland, spleen, liver and pancreas, GIT

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Embryology

Development of stomach, gut and kidney.

IV. Head and Neck

Mouth, Oral cavity, tongue, pharynx and esophagus, larynx and trachea.
Autonomic Nervous System.
Scalp, face, cutaneous supply of head & neck.
Triangles of neck, thyroid gland, parathyroid gland and parotid gland.
Dural venous sinuses and meninges.
Ear (Middle Ear cavity), Nose and paranasal air sinuses.
Eyeball and cranial nerves 3,4,6.
Trigeminal nerve and parasympathetic ganglion.
Muscles of mastication and temporomandibular joint.
External carotid artery and its branches.
Cranial nerves 7,9,10,11 and 12th.

Osteology

Skull, cranial fossa ,cervical vertebrae and mandible.

Histology

Pituitary, thyroid, parathyroid gland and salivary glands.

Embryology

Development of face, tongue, pharyngeal arches, pouches and cleft.

V. Neuro Anatomy

Cerebrum, functional area and blood supply.
Cerebellum and basal ganglion.
White matter and internal capsule
Brain stem, thalamus, hypothalamus
Ventricles and CSF circulation.
(Lateral ventricle, 3rd ventricle and 4th ventricle)
Spinal cord and blood supply of spinal cord.
Visual pathways & olfactory pathway.
Autonomic nervous system.
Ascending and descending tracts.
Lesions of CNS

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Histology

Cerebrum, cerebellum and spinal cord.

Embryology

Development of nervous system

VI. Upper Limb

Pectoral region, scapular region.
Axilla and axillary lymph node.
Cubital fossa.
Axillary and Brachial arteries.
Muscles of arm, forearm and head.
Peripheral nerves: Musculo cutaneous, axillary, radial, medium and ulnar
Joints - shoulder, elbow and wrist, supination and pronation.
Brachial plexus.
Palmar space and flexor synovial sheath, flexor retinaculum.
Dermatone.

Osteology

Clavicle, Scapular, Humerus, Radius and Ulnar bones, Carpal, Metacarpal and Phalanges.

Embryology

Development of limb.

Teaching /Learning Methods

Lectures	219	hours
Practical (Dissection/Demonstration)	96	hours
Tutorial	27	hours
Class tests	18	hours
Revision	24	hours
Total	**384**	**hours**

Student Assessment

1. Class Test

Class test I in 1st year (1st BDS)
A.Written -2 hours
(i)Eassay -3 questions
(ii)MCQ -25 in numbers with 4 responses
B.Practical test -20 minutes
Test -(10) questions with computer

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7.5 marks of classwork
class test I -General Anatomy
Class test II , III , IV - in 2nd year (2nd BDS)
Test II -Thorax and Abdomen
Test III -Head and Neck
Test IV -Neuroanatomy and Upper limbs
A.Written -3 hours
(i)Essay -5 questions
(ii)MCQ - 50 in number with 4 responses
B.Practical test -40 minutes
Test (20) questions with computer 7.5 marks for each test
22.5 marks of class work
total class work for 4 test -30 marks

Practical test includies

(1)Gross
(2)Histology
(3)Embryology
(4)Osteology

2. Final Examination at the end of academic year

It contsists of
(i) 3 hours theory paper contsists of MCQ &Essays
50 MCQ (with 4 responses)
5 essays in each paper
(ii) One practical test -40 minutes
Test with computer -include 20 questions

Weightage

(i)class work - 30 %
(ii)final examination
theory -50%
practical-20%

3.Viva voce examination

For potential distinction candidates whether to award distinction or not

4.Supplementary Examination

The suplementary examination is usually held six weeks after the completion of regular examination.

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DEPARTMENT OF PHYSIOLOGY

Dr. Than Htun
M.B.,B.S, M.Med.Sc. (Physiology)
Lecturer and Head

Station Medical Officer, Thitsone Station Hospital, Yamethin Township, Mandalay Division (1978-1980)
Station Medical Officer, Tarlawgyi Station Hospital, Myitkyina Township, Kachin State - (1981)
Civil Assistant Surgeon, Mandalay General Hospital - (1981-1986)
Demonstrator, Department of Physiology, Institute of Medicine, Mandalay- (1986-1996)
Assistant Lecturer, Department of Physiology, Institute of Medicine, Mandalay. (1996-1999).
Lecturer and Head, Department of Physiology, University of Dental Medicine Mandalay (1999 - onwards).

History of the Department

Institute of Dental Medicine, Mandalay was first established in 1st October, 1998 at Institute of Medicine, Mandalay. First intake was commenced in 29th November 1999.

On 11th December 2000, the Institute was moved to Chanmya Thazi Township, 62nd street just near the 300 bedded teaching hospital.

Physiology Department was run by the present Head Dr. Than Htun since 2nd August 1999. Dr. Nwe Nwe Yee was appointed as Assistant Lecturer from 2.2.2000 to 1.10.2001. Dr. Sein Sein Khaing was appointed as Demonstrator from 16.1.2000 to 11.7.2003. Dr. Kyaw Lun Aung Hmu was appointed as Demonstrator from 13.2.2001 to 15.7.2004.

At present, Physiology Department has one Lecturer and Head, three demonstrators and two laboratory staffs. Preliminary course of Physiology has been introduced to 1st B.D.S students since 2003 and whole course of physiology was taught as usual to 2nd B.D.S students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Dr.Than Htun, M.B.,B.S, M.Med.Sc. (Physiology)

Assistant Lecturer

1. Vacant

Demonstrators

1. Dr. Pye Thein Zaw, M.B.,B.S
2. Dr. Myint Khaing Htay, M.B.,B.S
3. Dr. Wai Phyo Aung, M.B.,B.S

Curriculum

1st year B.D.S Introduction to Physiology, cellular physiology and Haematology (60 hours)

2nd year B.D.S One year course, as expressed in course outline.

Method of Teaching

Didactic lecture	57	hours
Tutorials	41	hours
Practicals	30	hours
Class Tests	8	hours
Total	**136**	**hours**

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Course Outline

First Year

I. Introduction to physiology

a. Definition and concepts of homeostasis, internal and external environment and adadptation.

b. The feedback mechanisms.

c. Some examples of deviation from normal.

II. Cell Physiology

a. The structure and functions of organelles, transport system and effect of changes in the cell environment.

b. The physiological basis of replacement therapy, tonicity and volume.

III. Haematology

a. The components and normal values of blood.

b. The formation and functions of the cellular components of blood. (RBC, WBC, platelets).

c. The importance of physiological basis in some common clinical disorders, Eg. Haemoglobinopathies, coagulopathies, infections and infestations.

d. The clinical, medicolegal and anthropological importance of blood group.

Second Year

I. Autonomic nervous system

a. The physiological organizations and functions of ANS.

b. The effects of imbalance of ANS giving some common examples.

c. The knowledge of receptors and neurotransmitters in the correction of ANS imbalance.

d. Behavioral patterns of stress.

II. Excitable tissues

a. The functions and properties of neurons and muscles.

b. Muscle contraction.

III. Cardiovascular system

a. The physiological organization of CVS.

b. The functions of CVS (heart, blood vessel).

c. The normal values and control.

d. The knowledge in CVS physiology eg. changes in blood pressure, pulse pressure, blood volume to clinical conditions.

e. CVS response to strenuous exercise.

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IV. Respiratory system

a. The physiological organization of respiratory system and importance of surfactant.

b. The functions of respiratory tract.

c. The normal values and control.

d. The effects of hypoxia, hypercapnoea and H^+ on respiration.

e. Demonstration in administering cardiopulmonary resuscitation eg. artifical respiration, cardiac massage.

f. Effects of narcotic drugs and smoking.

V. Gastrointestinal tract

a. The physiological organization and enteric nervous system.

b. The functions of GIT (saliva, stomach, intestine).

c. GI hormones.

VI. Renal Physiology

a. The physiological organization of excretory system.

b. The functions of kidney and urine formation.

c. The normal values and homeostatic functions of kidney.

d. Changes in renal functions and body fluids in some common clinical conditions Eg. GE - (body fluids, electrolytes).

VII. Skin and thermoregulation

a. The functions of skin and mechanisms maintaining normal body temperature.

b. The problems of humidity and heat on individual and community.

c. Measurement of body temperature.

VIII. Endocrinology

a. The functions of endocrine organs.

b. Their secretions, actions and control.

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IX. Central nervous system

a. The physiological organizations and pathways.

b. The functions of CNS and stretch reflex.

c. The physiological basis of pain.

d. The relevant physiological phenomena applicable to the clinical setting. eg. referred pain.

e. Homeostatic functions of hypothalamus, spinal cord, and medulla.

f. Practical teaching on sensory, motor, cerebellar functions and reflexes.

g. Appetite and sexual behaviour.

h. CNS response to stress.

Student Assessment

First B.D.S

One two hour theory paper (MCQ & MSQ) carrying 10% classwork for 2nd B.D.S.

Second B.D.S

1. Formative assessment

1. Class test (30%)

The class test consist of

Written paper (MCQ & MSQ)

Laboratory work test

2. Summative assemssment

1. Final examination (70%)

One final examination at the end of the academic year. The final examination consists of

One (3) hours theory paper (MCQ & MSQ) (50%)

Laboratory work examination (20%)

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DEPARTMENT OF BIOCHEMISTRY

Dr. Daw Win Mar
M.B.,B.S, M.Med.Sc. (Biochemistry)
Lecturer and Head

Assistant Surgeon, Mandalay General Hospital	(1990)
Demonstrator, University of Medicine, Mandalay	(1995)
Assistant Lecturer, University of Medicine, Mandalay	(1998)
Lecturer and Head, University of Dental Medicine, Mandalay	(2003 - onwards)

History of the Department

Institute of Dental Medicine, Mandalay was first estabtished in 1998, October 1st, at Institute of Medicine, Mandalay. First intake was commenced in 29th November, 1999.

On 11th December, 2000, the institute was moved to this situation, 62nd Street, Chanmyatharzi Township, Mandalay.

The first Lecturer and Head of Biochemistry Department was Dr U Hla Aung, M.B.B.S,M.Med.Sc (Biochemistry) certificate in M.E (1999-2000). He was transferred to Department of Medical Research, upper Myanmar.

The Biochemistry subject commenced in (2000-2001) academic year for 2nd B.D.S students. At that time, only one demonstrator was present in this department.

Thus, the head and staff members from Biochemistry Department of Institute of Medicine, Mandalay took over the responsibility to teach Biochemistry in 2nd B.D.S.

On 24th June, 2003, Dr. Daw Win Mar was transferred to here as lecturer and Head of Department of Biochemistry, University of Dental Medicine, Mandalay.

At present, the Biochemistry Department has a Head (Lecturer), three demonstrators and two laboratory staff. It is run by the present Head Dr. Daw Win Mar and the staff members.

After 6th Medical Education Seminar (November, 2003), the entroductory course of Biochemistry was taught to the 1st B.D.S students.

Thus, now, Biochemistry is taught as a subject to the 1st B.D.S and 2nd B.D.S students.

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Group Photo of Academic Staff

The Staff

Lecturere and Head

1. Dr.Daw Win Mar, M.B.,B.S, M.Med.Sc. (Biochemistry)

Assistant Lecturer

1. Vacant

Demonstrators

1. Dr.Daw Saw Marlar win, M.B.,B.S
2. Dr. Daw Ohn Mar Swe, M.B.B.S
3. Dr. Zaw Lin Tun, M.B.,B.S

Curriculum

1st years B.D.S	Introduction Course.
2nd years B.D.S	One year course.

Method of Teaching

1st B.D.S

Didactic lecture	58	hours
Class Tests	2	hours
Total	**60**	**hours**

2nd B.D.S

Didactic lecture	124	hours
Tutorial	36	hours
Laboratory work	36	hours
Class Tests	10	hours
Total	**206**	**hours**

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Course Outline

1st B.D.S

I. Molecular Biology

Structure and functions of nucleic acid (DNA, RNA)
Flow of genetic information (Out line)

II. Enzynology

Defination of enzyme, Chemical nature of enzyme,
Distribution of enzyme, Classification of enzyme, Coenzyme, Isoenzyme

III. Chemistry of Blood

Functions of blood, structure and function of hemoglobin.
Functions of plasma protein.

IV. Nutrition

Components of nutrients and diet.
Sources, functions and deficiency of carbohydrate, fat, protein.
Balanced diet.

V. Minerals

Classification, Sources, functions and deficiency.

VI. Digestion

Digestion and absorption of carbohydrate, fat, protein.

VII. Energy Metabolism

Sources of energy, Energy unit, Internal utilization of energy, energy balance, energy rich compounds.

VIII. Fluid and Electrolytes

Body fluid compartment, functions of water and electrolytes in the body, water balance.

IX. Acid Base

Acid base concepts, sources of hydrogen ions, sources of alkali in the body, the needs for acid base regulation.

Student Assessment

Class test on 1st B.D.S
Marks which obtained from 1st B.D.S test is carried to 2nd B.D.S (Class Work)

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Course Outline

2nd B.D.S

I. Molecular Biology

- Gene, genetic code, gener expression, DNA replication, DNA transcription, protein biosynthesis, DNA repair, mutation, recombinant DNA technology.

II. Enzymology

- Mechanism of enzyme action, factors affecting the velocity of enzyme catalyzed reaction, medical aspects of enzymology, regulation of enzyme activity.

III. Biochemistry of Blood

(1) Hemoglobin

- Biosymthesis of hemoglobin, breakdown of hemoglobin, normal and abnormal variants of Hb, serum bilirubin.

(2) Plasma Protein

- Normal level of plasma proteins and factors affecting it, Immunoglobin.

(3) Blood clotting and fibrinolytic system

IV. Biochemistry of respiration

- Properties of gases, transpor of respiratory gases, hemoglobin dissociation curve and factors affecting it.

V. Food and Nutrition

- Essential nutrients, body mass index,
- Fat soluble vitamins, water soluble vitamins.

VI. Liver and biliary system

- Functions of liver, liver function test, composition of bile, functions of bile.

VII. Gastroenterology

- Digestion and absorption of carbohydrate, fat, protein.

VIII. Biologic oxidation

- Biomedical importance, respiratory chain, oxidative phosphory lation, ATP.

IX. Energy metabolism

- Bioenergetics, metabolic rate, basal metabolic rate.

X. Body fluid and Acid Base

- Regulation of ECF, normal blood pH, regulation and maintenance of normal blood pH.
- Acid base imbalance.

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XI. Biochemistry of Endocrine glands

- General characteristics of hormones, general mechanism of actions of hormones, hormones that regulate calcium metabolism, Insulin, Thyroid hormone, Hormones of adrenal cortex, hormones of adrenal medulla.

XII. Carbohydrate metabolism

- Glycolysis, Glycogen metabolism , gluconeogenesis, citric and cycle, hexose mono phosphate shunt, uronic acid pathway, fate of glucose, fate of pyruvate, blood glucose and its regulation.

XIII. Lipid metabolism

- Plasma lipid, metabolism of lipoprotein, metabolism of cholesterol, metabolism of ketone body, lipogenesis, lipolysis, lipid peroxidation, β oxidation, free fatty acid, metabolism of triacylglycerol, metabolism of phospholipid.

XIV. Protein metabolism

- Fate of amino acid in the body, Ammonia metabolism synthesis of urea, blood urea level and factors affecting it, Hormonal control of protein synthesis, metabolic disorders of the catabolism of amino acid, common metabolic pool.

XV. Nucleoprotein and nucleic acid metabolism

- Biomedical importance, metabolism of purine, metablism of pyrimidine, Blood uric acid level and factors affecting it.

Student Assessment

(1) Formative assessment (30%)

- Test on 1st B.D.S
- 3 written test (2nd B.D.S)

Test I, II, III (3 hours theory paper (MCQ = 1 hr)
MSQ = 2 hr)

- 1 Practical test

(2) Summative assessment (70%)

- One 3 hour theory paper 50%
  (MCQ = 1hr , MSQ = 2hr)
- One hour practical examination 20%
- Viva voce on for Distinction Candidate

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DEPARTMENT OF ORAL BIOLOGICAL SCIENCE

Dr. Bo Bo
B.D.S (Ygn) M.D.Sc(Ygn)
F.I.C.C.D.E, Dip MedEd
Lecturer and Head

Attached Dental Surgeon, Y.G.H + I.D.M, Yangon,	(Sept:1993- Sept:1994)
M.D.Sc Student,Y.G.H + I.D.M, Yangon,	(Oct 1994 - July 1997)
Post Graduate Trainee, Y.G.H, Yangon,	(Aug:1997 - Aug: 1998)
Demonstrator, Institute of Dental Medicine, Yangon,	(Aug 1998 - May 1999)
Assistant Lecturer, Institute of Dental Medicine, Yangon,	(May 1999 - May 2001)
Lecturer / Head, University of Dental Medicine, Mandalay,	(May 2001-onwards)

History of Department

The very first dental college was founded in 1964 and it was promoted as Institute of Dental Medicine Yangon in 1974. During the earlier days, our department was attached as a single unit to the department of Oral Medicine, Institute of Dental Medicine, Yangon. In the year 1995, the time reached for Institute of Dental Medicine, Yangon to move towards Thingangyun Township from downtown and then this story started, as the department of Dental Anatomy & Physiology had been set up as the seperate department. In 1998 a new Dental University was opened in Mandalay and now we have two Dental Universities in Myanmar. Till now Mandalay Dental University had graduated three batches of trainees exactly 197 in number. In 2004 the name of the department was changed as the Department of Oral Biological Science in order to clarify confusion on the former name and to improve international relations. The nature of this subject concentrates on study of functions and structural components of dental hard tissues and paraoral structures. In fact, this subject is the transitional bridge for the dental students so as to proceed from basic to advanced clinical dentistry.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Dr. Bo Bo, B.D.S, M.D.Sc, F.I.C.C.D.E, Dip MedEd)

Assistant Lecturer

1. Dr. Kyaw Kyaw Myint, B.D.S (Ygn), M.D.Sc(Ygn)

Demonstrators

1. Dr Win Ngu Wah , B.D.S (Ygn)
2. Dr. Yamin Ei Swe, B.D.S (Ygn)

Curriculum

2nd year B.D.S — One year course

Method of Teaching

Didactic lecture	70 hours
Tutorial	24 hours
Practical	48 hours
Class Tests	9 hours
Total	**151 hours**

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Course Outline

I. Development of tooth

- Early formation of tooth enamel, dentine, cementum, pulp and periodontal ligament.

II. Structure and Composition of dental hard tissue

- Enamel, dentine, cementum dentine pulp complex, periodontal ligament & alveolar bone.

III. Oral Mucous membrane

- Anatomy & physiology of oral mucous membrane, division & function.

IV. Salivary glands

- Normal anatomy, its functions and physiological properties of saliva.

V. Physiological bone maintenance mechanism

- Basic concept of facial growth, size increase & remodeling. Bone and cartilage growth sequence.

VI. Changes of dental tissue of age and repair

- Changes in enamel, dentine pulp, cementum gingival tissue and periodontal membrane.

VII. Dentine Sensitivity

- Theories of dentine sensitivity.

VIII. Eruption

- Eruptive mechanism, formation of epithelial attachment, eruption time in chronological order, shedding of deciduous teeth and mixed dentition.

IX. Occlusion

- Relation of teeth in normal occlusion & compensating curves in the arches.

X. Comparison of permanent and deciduous dentition

- To compare clinically and theoretically.

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XI. Comparative Anatomy

- Classification of vertebrate dentition.
- Characteristic of vertebrate dentition.
- Form of teeth in relation to the demands of function.
- Dental adaptation to the demands of function.
- The dentition of the primates.
- The dentition of fossils of importance in determining the antiquity of man.
- Characteristics of the human detition in the light of comparative anatomy.

XII. Tooth Morphology

From permanent central incisor to permanent second molar of both jaws.

Student Assessment

1. Formative Assessment

1.1. Practical class work.(Tooth morphology drawing and plaster carving)

1.2 Theoretical class tests.

This assessment comprises 30% for the whole academic year.

2. Summative Assessment

1.1. Final theory examination. (40%)

1.2. Final practical examination (Spot diagnosis on tooth specimen) (20%)

1.3. Viva (10%)

1.3.a. Grand Viva for selective candidates.

1.3.b. Decision making Viva for moderated candidates.

For the students on average (10%) weight age of marks will be considered and scored owing to their knowledge, attitude and skill including attendance, modesty, interest and perseverance.

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DEPARTMENT OF PHARMACOLOGY

Prof. Dr. San San Nwe
M.B.,B.S (Ygn), M.Med.Sc (Pharmacology), Ph. D
Professor & Head

Medical Officer, Basic Training Pool, Department of Health, Yangon - (1985)
Medical Officer, Civil Hospital, Tharrawaddy- (1986-1989)
Demonstrator: Department of Pharmacology, University of Medicine (1), Yangon - (1989-1995)
Assistant Lecturer: Department of Pharmacology, University of Dental Medicine , Yangon (1995-1998)
Lecturer/ Head, Department of Pharmacology, University of Nursing, Yangon - (1998-2003)
Associate Professor, Department of Pharmacology, University of Medicine (I), Yangon - (2003)
Associate Professor, Department of Pharmacology, University of Medicine, Magwe - (2003)
Associate Professor, Department of Pharmacology, University of Medicine (I), Yangon - (2003)
Professor / Head, Department of Pharmacology, University of Medicine,Mandalay, (also takes the responsibilities of Head of Department of Pharmacology) University of Dental Medicine, Mandalay, From (2003 up to now)

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History of the Department

University of Dental Medicine was first inauguated in 1st October 1998. The students of first batch were taught at the University of Medicine, Mandalay because the building for University of Dental Medicine had not yet been finished at that time 29th November, 1999.

On 11th December, 2000, the new building was completely finished and all the department were transferred to there, 62nd street, Myothit.

The Pharmacology course commenced in (2001-2002) academic year for 3rd B.D.S students of 1st batch. At that moment, only two demonstrators were appointed one by one. Thus the Professor / Head of department of Pharmacology, University of Medicine, Mandalay took the responsibilities. The teaching staffs of department of Pharmacology, University of Medicine, Mandalay also participated in teachig as well as assessment.

1st December 2003, Professor Dr San San Nwe, Professor / Head of Department of Pharmacology, University of Medicine, Mandalay took the responsibilities of head of Department of Pharmacology, University of Dental Medicine, Mandalay. The Pharmacology course was changed from-drug-orientated teachig to clinical - orinated teaching.

Now, Prof / Head and senior teaching staffs of Department of Pharmacology, University of Medicine, Mandalay and three demonstrators, namely Dr. Soe Soe Kyi, Dr. Hein Si and Dr San Yay Aye, Department of Pharmacology, University of Dental Medicine are teaching the Pharmacology subject to third year B.D.S students.

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Group Photo of Academic Staff

Demonstrators

1. Dr. Soe Soe Kyi, M.B.,B.S (Mdy)
2. Dr. Hein Si, M.B.,B.S (Mdy)
3. Dr. San Yay Aye, M.B.,B.S (Mdy)

Curriculum

3rd year B.D.S One year course.

Method of Teaching

Lecture	129	hours
Tutorial + Assignment	21	hours
Class Tests	9	hours
Revision	18	hours
Total	**177**	**hour**

Course Outline

1. General Pharmacology

- Pharmacokinetics
- Pharmacodynamics
- Drugs used in Pregnancy.
- Drugs used during lactation

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2. Systemic Pharmacology

2.1. Central Nervous System

- Sedatives and Hypnotics
- General Anaesthetics
- Local Anaesthetics
- Analgesics
- Alcohol
- Drugs used in treatment of Parkinsonism
- Drugs used in acute muscle spasm

2.2. Autonomic Nervous System

- Sympathomimetic agents
- Sympatholytic agents
- Parasympathomimetic agents
- Parasympatholytic agents

2.3. Respiratory System

- Drugs used in treatment of bronchial asthma.
- Drugs used in treatment of cough

2.4. Cardiovascular System

- Antihypertensives
- Drugs used in treatment of angina
- Drugs used in treatment of hyperlipidaemia
- Drugs used in treatment of shock.
- Antiplatelets, Antithrombotics, fibrinolytics.

2.5. Autacoids, Ecosanoids, Vasoactive Polypeptides

2.6. Renal System

- Diuretics
- Fluids and electrolytes.

2.7. Gastrointestinal System

- Drugs used in peptic ulcer.
- Antidiarrhoeal agents
- Laxatives & Cathartics
- Emetics & anti - emetics

2.8. Endocrine

- Corticosteroids
- Antidiabetic agents
- Thyroid and anti-thyroid drugs
- Sex hormones & Oral contraceptives

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2.9. Anti-infectives

- Introduction of anti-infectives
- Penicillins & other beta-lactam antibiotics
- Cephalosporins
- Macrolide antibiotics
- Lincosamines
- Chloramphenicol
- Tetracycline
- Aminoglycosides
- Quinolones
- Other, antibacterial agents
- Anti-viral agents
- Anti-fungal agents
- Drugs used in TB
- Drugs used in leprosy
- Anti-malarial drugs
- Anti - amoebic agents

2.10. Chelating agents and antidotes

2.11. Anti-anaemic drugs

2.12. Antiseptics & disinfectants

2.13. Anticancer drugs

2.14. Immunopharmacology

2.15. Drug Interaction

Student Assessment

1. Formative Assessment

1.1. Written & oral tutorial

1.2. Assignment

1.3. Theory class tests 3 times a year.

2. Summotive Assessment

Final examination will be held at the end of academic year.

2.1. Theory Paper

- Written consist of
  MCQ (one hour) and
  MCQ (two hours)

2.2. Viva

a - Viva for every students

b - Grand viva for distinction condidate students

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DEPARTMENT OF PATHOLOGY

Dr. Daw Khin Marlar Win
M.B.,B.S, M.Med.Sc(Pathology)
Lecturer and Head

Assistant Surgeon, Mandalay General Hospital - (1991)
Demonstrator, University of Medicine, Mandalay - (1995)
Assistant Lecture, University of Nursing, Mandalay - (1999)
Lecturer and Head, University of Dental Medicine, Mandalay (2000-Onwards)

History of Department

University of Dental Medicine was first established on 23rd October 1998 at the main building of University of Medicine, Mandalay. 1st B.D.S teaching classes started at 29th November 1999.AT 11th December 2000, the University of Dental Medicine was tranferred to the block between 60th and 62nd street, Myothit, Chan Mya Thazi township, Mandalay at the sourth of 300 bedded teaching hospital.

The pathology course commenced at (2001-2002) academic year with 74, 3rd B.D.S students.

The present head of the pathology department became Lecture and Head of department since 2nd February 2000.

The department now has a Head (Lecturer), one assistant Lecturer, four demonstrators and one laboratory staff. General pathology is taught as a subject only to 3rd B.D.S student.

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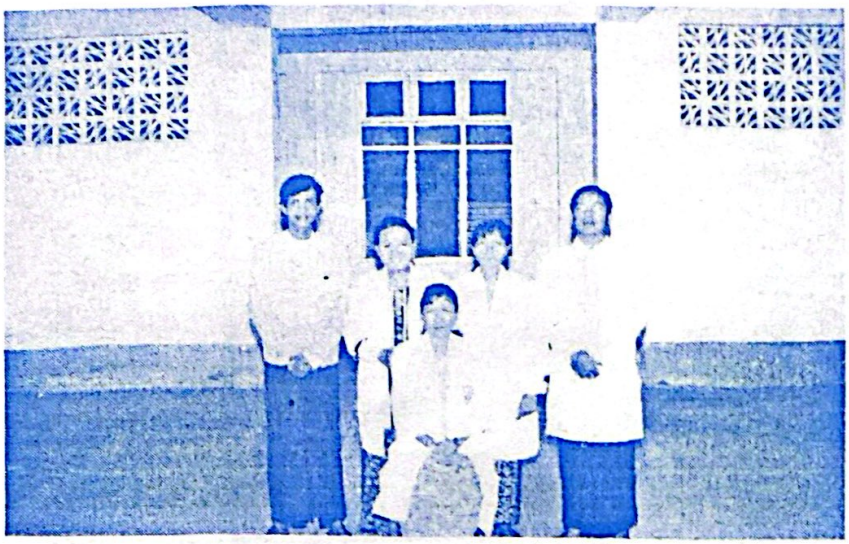
Group Photo of Academic Staff



The Staff

Lecturer and Head

1. Dr. Daw Khin Marlar Win, M.B.,B.S, M.Med.Sc (Patholgoy)

Assistant Lecturer

1. Dr. Naing Lin Tun, M.B.,B.S, M.Med.Sc (Pathology)

Demonstrators

1. Dr. Yin Yin Aung, M.B.,B.S
2. Dr. Cho Cho Htwe, M.B.,B.S
3. Dr. Salai Phe Ling Htang, M.B.,B.S
4. Dr. Htin Aung Latt, M.B.,B.S

Curriculum

3 years B.D.S One year course

Method of Teaching

Lecturer	128	hours
Practical	25	hours
3 class test + 1 practical test	11	hours
Tutorials	16	hours
Total	180	hours

Course Outline

1. Introduction to Pathology

2. Inflammation and Repair

Definition, classification, changes and morphology of actute inflammation, chronic inflammation, chemical mediators, outcome of acute inflammation, chronic inflammation, primary union, secondary union, complications of wound healing.

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3. Cellular injury and cellular death

Causes, general mechanism, morphology of cell injury, necrosis and apoptosis.

4. Intracellular accumulation

Fatty change, pathologic calcification, pigments.

5. Fluid & Haemodynamic derangement

Definition of oedema, classification of oedema, pathogenesis and morphology of oedema, hyperenia and congestion, Thrombosis, Embolism, Infraction and shock.

6. Cellular adaptation

Definition, classification, causes & significance of hypertrophy, atrophy, hyperplasia and metaplasia.

7. Neoplasia

Definition, classification, nomenclature of tumor, carcinogenesis, spread, laboratory diagnosis of a tumor, staging and grading of cancer.

8. Infectious diseases

Tuberculosis, Leprosy, Amoebiasis, Viral hepatitis, sexually transmitted diseases, Typhoid fever, malaria.

9. Vitamin and mineral deficiency

10. Diabetes mellitus

Classification, pathophysiology, clinical features, complications and laboratory diagnosis.

11. Disorders of Immunity and AIDS

Immune system in general, Hypersensitivity reactions, Autoimmunity and Graft rejection, Immunodeficiency, AIDS.

12. Haematology

12.1. RBC Disorders

Definition, classification, pathogenesis causes and clinical features of vavious types of anaemias. Pancytopenia, Aplastic anaemia.
b thalassaemia major.

12.2. WBC Disorders.

Leucocytosis
Leucopenia
Definition and classification of Leukemia
Clinical features and laboratory diagnosis of acute leuckemia, chronic myeloid leukemia, chronic lymphocytic leukaemia, leukemoid blood picture.

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12.3. Platelet Disorders

Definition, classification of thrombocytopenia, clincial features and diagnois of immune thrombocytopenia.

12.4. Coagulation Disorders

Haemophilias

Acquired coagulation, disorders.

12.5. Blood groups & blood transfusion

Blood group antigens and antibodies, hazards of blood transfusion.

Student Assessment

1. Formative Assessment

Class Work

1.1. Three written class tests

1.2. One Practical test

1.3. Seven tutoral tests.

2. Summative Assessment

2.1. One final examination at the end of the academic year.

2.2. One supplementary examination (6 weeks after final examinaton)

3. Final Examination includes

3.1. One three-hour theory paper.

3.2. One two - hour practical.

4. Weightage

Class work	30%
Theory paper (Final Exam:)	50%
Practical (Final Exam:)	20%

5. Criteria for passing & failing

Performance in classwork.

Performance in final examination.

6. Criteria for distinction

Class work at least	75%
Final written examination at least	75%
Final practical at least	75%

7. Supplementary Examination

7.1. one three - hour theory paper

7.2. one two - hour practical

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DEPARTMENT OF MICROBIOLGOY

Dr. Daw Khin Nyein Wan
M.B.,B.S, M.Med.Sc, (Microbiology)
Lecturer and Head

Medical Officer, National Health Laboratory (Ygn)- (1995)
Demonstrator (against A.L), University of Dental Medicine Mandalay- March (2002)
Assistant Lecturer, University of Dental Medicine Mandalay - December (2002)
Lecturer and Head, University of Dental Medicine Mandalay - (2004-Onward)

History of Department

University of Dental Medicine was first established in 1998, October 1st, at the University of Medicine, Mandalay. Students of 1st batch were taught at that University from 29th November, 1999.

On 11th December, 2000, the University was moved to this situation, 62nd street, Myothit. The Microbiology course commenced in (2001-2002) academic year for 3rd B.D.S students. At that time, the head and only one demonstrator were present in this department.

On 1st January, 2002, the head and the saff members of Microbiology Department of University of Medicine, Mandalay, took the responsibility in teaching microbiology together with native only two demonstrators.

On 11th March, 2002, the present Head Dr. Daw Khin Nyein Wan transferred to here as a demonstrator (against Assistant Lecturer). Then she became assistant lecturer and promoted to lecturer and head of this deparment from 13th May, 2004.

The Department now has a Head (Lecturer), two demonstrators and one laboratory staff. It is run by the present Head Dr. Daw Khin Nyein Wan and the staff members. Microbiology is taught as a subject only to the third year students.

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Group Photo of Academic Staff

The Staff

Lecturer and Head

1. Dr. Daw Khin Nyein Wan, M.B.,B.S (Ygn), M.Med.Sc (Microbiology)

Assistant Lecturer

1. Vacant

Demonstrators

1. Dr. Daw Ohnmar Kyaw Myint, M.B.,B.S (Mdy)
2. Dr. Daw Thandar Win Aung, M.B.,B.S (Mdy)
3. Dr. Nan Naykyi Oo, M.B.,B.S

Curriculum

3rd years B.D.S One year course

Method of Teaching

Didactic lecture	104 hours
Practical Work	24 hours
Tutorial	34 hours
Class Tests and review	18 hours
Total	**180 hours**

Course Outline

1. General Microbiology

1.1. Microbiology and Oral Medicine
1.2. Classification of Microorganisms.
1.3. Sterilization and disinfection.

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1.4. Microscope and microscopy.
1.5. Antimicrobial drugs.
1.6. Microbial genetics
1.7. Infection and mode of transmission of infections
1.8. Microbial pathogenecity.

2. General Bacteriology

2.1 Classification of bacteria.
2.2. Morphology and structure of bacteria.
2.3. Bacteriological stains
2.4. Growth and nutrition of bacteria.
2.5. Bacteriological culture media.

3. Systemic Bacteriology

Definition of terms, classification, morphology, staining reaction, biochemical reaction, antigenicity, pathogenesis, clinical features, clinical conditions, complications, laboratory diagnosis, transmission, prevention and control measures of common bacteria.

4. Immunology

4.1 Immune system
4.2 Defences of the normal human host against infection.
4.3. Antigen, antibody and Ag-Ab reaction.
4.4. Immunity
4.5. Immune response.
4.6. Hypersensitivity
4.7. Immunoprophylaxis and immunotherapy
4.8. Autoimmunity.

5. Virology

5.1. General Consideration:

Morphology and structure; classification; chemical composition; cultivation; physical and chemical reaction; pathogenesis; replication; laboratory diagnosis.

5.2. Definition, properties, pathogenesis, clinical features, complication, laboratory diagnosis, transmission, prevention and control of common viruses.

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6. Mycology

6.1. General Consideration:
Morpholgy; staining character; growth requirement; culture character; reproduction; susceptibility to physical and chemical agents; classification.

6.2. Morphology and staining reaction, cultural character, antigenic structure, pathogenesis, clinical features, laboratory diagnosis, transmission, prevention and control of common fungal organisms.

7. Parasitology

7.1. General Consideration of protozoa and helminths.
Definition of terms; classification;

7.2. Definition of terms, classifcation, morphology, life cycle, pathogenecity, clinical features, complication, laboratory diagnosis, transmission, prevention and control of common parasites.

8. Clinical Mircobiology

8.1. Oral microflora and the host
8.2. Dental caries
8.3. Periodontal disease

Student Assessment

1. Class - Work

1.1. Written tutorial
1.2 Theory Class Test three time a year
1.3 Practical test once a year.

2. One Final Examination at the end of the academic year.

3. Final Examination with consists of:

3.1 One three - hour theory paper (M.S.Q)
3.2 One One - hour practical

4. Final Assessment:

4.1 Performance in tutorial, practical and tests.
4.2 Performance in the final examination.

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DEPARTMENT OF PREVENTIVE AND SOCIAL MEDICINE

Dr. Daw Khin Khin
M.B.,B.S, Diploma of Medical Science (Public Health)
Lecturer and Head

Assistant Surgeon, Mandalay General Hospital - (1981)
Assistant Surgeon, Mawlike, District Hospital (Sagaing Division) - (1986-87)
Station Medical Officer, Kyaukyit Station Hospital - Myaung - (1987-90)
Assistant Surgeon, Workers' Hospital Mandalay - (1990-93)
Medical Officer, University of Development of National Races (Ywathitgyi)- (1993-97)
Medical Officer, Unviersity of Technology Mandalay - (1997-1999)
Township Health Officer, Divisional Health Department Mandalay (1999)
Assistant Lecture, University of Dental Medicine, Mandalay (1999-2000)
Lecturer, University of Dental Medicine, Mandalay (2000-Onward)

History of Department

University of Dental Medicine was first established on (19-11-1999) at 30th street, in the compound of University of Medicine, Mandalay. On (11-12-2000) University was moved to Myothit, 62nd street, near the 300 beded teaching hospital. The Preventive and Social Medicine course for dental medicine commenced in (Nov:2003 - 2004) academic year with (66) students. At that time, the head and Assistant Lecture of Preventive and Social Medicine Department, took responsibility in teaching.

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The Staff

Lecturer and Head

1. Dr. Daw Khin Khin, M.B.B.S, Dip: of Medical Science (Public Health)

Assistant Lecturer

1. Vacant

Demonstrators

1. Nil

Curriculum

4th years B.D.S One year course

Method of Teaching

Didactic lecture	20 hours
Class Tests	7 hours
Total	**27 hours**

Course Outline

I. Concepts of Health and Disease

a. Concepts of Health
b. Definition of Health
c. Dimension of Health
d. Determinants of Health
e. Concept of well beings
   1. Standard of Living
   2. Level of Living
   3. Quality of Life
f. Concept of disease
g. Natural History of disease
h. Levels of Prevention.

II. Environmental Health

a. Environmental Health in general
b. Water sanitation
c. Food sanitation
d. Excreta disposal
e. Refuse disposal
f. Housing and Health

III. Occupational Health

IV. Immunization and Immunizing Agents.

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V.1. Epidemiology

a. Priniciples of epidermiiology
b. Basci Measurement
c. Epidemiological Methods (in general)

V.2. Epidemiology of communicable diseases

a. Principle of Prevention and control
b. Control measure of an outbreak.
c. Epidemiological investigation
d. Principal Epidemic diseases.
    1. Cholera
    2. Plague
    3. Dengue syndrome
    4. HIV / AIDS
e. Other infectious Diseases
    - Viral Hepatitis: Serum Hepatitis.

VI. Biomedical Statistics

VII. Public Health administration

1. Management
2. Primary Health Care
3. School Health
4. Maternal and Child Health
5. Health Education.
6. National Health Plain

VIII. Concepts & Practice of community Medicine

Student Assessment

1. Class - Work

1.1. Weekly assignment
1.2 Theory Class Test three time a year
1.3 Attendance for academic year.

2. One Final Examination at the end of the academic year.

3. Final Examination with consists of:

3.1 One three - hour theory paper as CD II.
3.2 Practical / Viva

4. Final Assessment:

4.1 Performance in weekly assignment, tests and attendance
4.2 Performance in the final examination

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DEPARTMENT OF PROSTHODONTICS

Dr. U Ko Ko
B.D.S.,M.D.Sc.(Ygn), F.I.C.C.D.E, F.I.C.D (USA)
Post Graduate Lecturer and Head

Demonstrator	- Institute of Dental Medicine, Yangon(1997).
Assistant Lecturer	- Institute of Dental Medicine, Yangon(1999).
Lecturer	- Institute of Dental Medicine, Mandalay(2001).
Lecturer and Head	- University of Dental Medicine, Mandalay(2003-2007)
Post Graduate Lecturer and Head	- University of Dental Medicine, Mandalay (2007- Onward)

History of Department

Institute of Dental Medicine, Mandalay was first established in 1998 at 62ndStreet, Chan-mya-tha-zi township. The Department of prosthodontics was commenced in 2002-2003 3rdB.D.S. academic year with 58 number of 2ndB.D.S. passed students. At that time, lectures of Dental Material Science and Basic Prosthodontics subjects were given to 3rd B.D.S. students.

These 3rd B.D.S. students attend to one academic year and after passing the 3rd B.D.S. exam, they are become 4thB.D.S. students. At that time, lectures of clinical prosthodontics subject part I were given to the 4thB.D.S. students. At this time, one academic year, these students attend to clinical lectures and performance in clinic and sit the completion test. After passing the completion test, they are become Final B.D.S. students. At this academic year, clinical prosthodontics lecture part II were given to Final B.D.S. students for one academic year. After passing the Final B.D.S. course, they are become House Surgeons for six months duration for six major departments. After getting the completion of House Surgeon internship, they must have B.D.S. graduation degree.

The Department now has a Head Post - Graduate Lecturer, one lecturer, two assisstant lecturers, six demonstrators,one dental technician, two laboratory assisstants and one sweeper. It is run by the present Head Dr. U Ko Ko and Staff members. Prosthodontics is taught as a subject to 3rd year, 4th year, Final year students and House surgeons.

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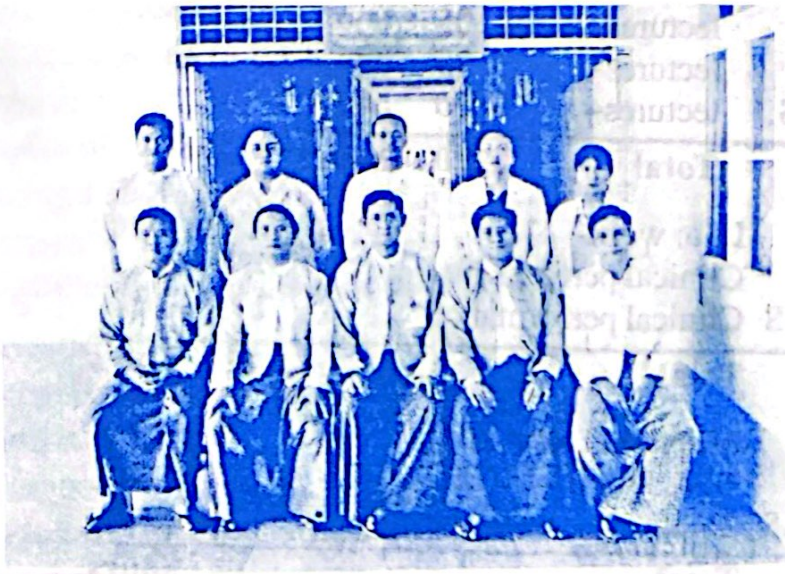
Group Photo of Academic Staff



The Staff

Professor and Head

1. Vacant

Post Graduate Lecturer and Head

1. Dr. U Ko Ko, B.D.S., M.D.Sc.(Ygn), F.I.C.C.D.E, F.I.C.D (USA)

Lecturer

1. Dr. U Than Swe, B.D.S., M.D.Sc.(Ygn)

Assistant Lecturers

1. Dr. Kyaw Tint, B.D.S., M.D.Sc.(Ygn), Ph.D.(Japan)
2. Dr. Aung Win, B.D.S., M.D.Sc.(Ygn)

Demonstrators

1. Dr. Ye Win Naing, B.D.S., M.D.Sc.(Ygn)
2. Dr. Myint Myint Aung, B.D.S.(Ygn)
3. Dr. Tynn San, B.D.S.(Ygn)
4. Dr. Thin Naing Oo, B.D.S.(Ygn)
5. Dr. Pyay Lwin, B.D.S.(Ygn)
6. Dr. Hpone Kyaw Myint, B.D.S.(Ygn)

Curriculum

3rd year B.D.S.	one year course
4th year B.D.S.	one year course
Final year B.D.S.	one year course
House Surgeons	six months

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Method of Teaching

3rd B.D.S.	lectures-	105	hours
4th B.D.S.	lectures-	35	hours
Final B.D.S.	lectures-	70	hours
	Total	**210**	**hours**

3rd B.D.S	Lab: work-	250	hours
4th B.D.S	Clinical performance-	420	hours
Final B.D.S	Clinical performance-	700	hours
	Total	**1400**	**hours**

3rd B.D.S	Mid term Exam and	5	hours
4th B.D.S	Tests Exam	2	hours
Final B.D.S	Exam	5	hours
	Total	**12**	**hours**
Grand Total Teaching and Learning hour		**1622**	**hours**

Course Outline

A. 3rd B.D.S. course

I. Dental Material Sciences

01. Introduction, requirements of materials, basic scientific principles
02. Biological properties
03. Mechanical properties
04. Rheological properties
05. Metals
06. Alloys
07. Corrosion and electrodeposition
08. Ceramic

Impression materials

09. Impression materials: requirements and classification: impression trays
10. Non-elastic impression materials
11. Hydrocolloids impression materials
12. Elastomeric impression materials

Inlay, crown, bridges and veneer materials

13. All ceramic restorations
14. Alloys or inlay, crowns and bridges

Materials for dental prosthesis

15. Polymeric denture base materials
16. Partial denture casting alloys

Registrar

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Laboratory materials and procedures

17. Cast and die materials
18. Waxes and base plate materials
19. Investment materials
20. Principles of casting, faults in casting
21. Soldering and Welding
22. Abrasion and polishing agents
23. Denture cleanser and Denture adhesive

II. Basic Prosthodontics

1. Introduction to prosthodontics

2. Applied Anatomy

Oral mucosa and tissue , Alveolar ridges, Peripheral outline and form of the denture, the tongue, TMJ movements, Muscles of mastication, The lip muscles, Mandibular movements of mastication, non-functional and para-functional movements of mandible, Introduction to occlusion.

B. 4th B.D.S. Course

Clinical Prosthodontics Part I

1. History taking

Taking a history and examination of the mouth; visual examination,digital examination, radiological examination.

2. Impression taking

Impression for complete dentures, ideal impression materials, impression trays, the dental preliminary impression, the master impression, special impression techniques, advantage and disadvantage of various impression materials.

3. Jaw relationship records

The maxillo-mandibular relations, record blocks, freeway space measurement,vertical relation and horizontal relation recording, sealing of records blocks, increased and decreased vertical dimension.

4. The selection of teeth

Classification of patients, size, shape, shade, posterior tooth form.

5. Setting teeth on the articulator

The position and arrangement of artificial teeth compensatory curves, wax-countouring of denture.

6. Trying the denture in the mouth (or) in clinic.

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7. Fabrication of denture(Lab performance)

Flasking, packing, curing, deflasking, abrasion and polishing and finishing the denture.

C. Final B.D.S. Course

Clinical Prosthodontics Part II

(I) Complete denture

1. Denture delivery and insertion
2. Patient instruction and denture care
3. Complete denture complaints
4. Relining, Rebasing, and denture repair

(II) Partial denture

1. Partial denture construction

Defination of partial denture, function of partial denture, advantage and disadvantage of partial denture, to make a denture or not.

2. Classification of partial denture

Support Classification, Kennedy's Classification, Cummer's Classification.

3. Component parts of partial denture

Saddles, connectors, direct retainers, clasps, types of clasps, mechanical properties of clasp alloy, indirect retainers, occlusal rests.

4. Materials for partial denture base

Polymeric materials, metal alloy, cobalt chromium alloy, wrought alloys.

5. Principles of partial denture design

Requirements, Vertical loads, lateral loads, anteroposterior loads, vertical dislodging forces, preservation of tissue health, the economic partial denture examples of technique of designing, stress breaker, examples of design, steps for fabrication of cast partial dentures, guide line for development of removable partial denture framwork design.

6. Immediate denture

Defination, advantage and disadvantage, main types, clinical procedures, laboratory procedure, post immediate technique.

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7. Obturator(Maxillofacial prosthesis)

Defination, types, to make obturator or not, clinical technique.

8. Over dentures

Reasons of popularity, goals, indications, advantage and disadvantage, main technique of over denture.

9. Gerodontology

Defination, prosthodontics management and treatment for elderly patients, preventive prosthodontics.

Student Assessment

1. **Class-work(3rd B.D.S.)**
   - 1.1. 3rd B.D.S. Lab.work practical performance.
   - 1.2. 3rd B.D.S. Class test twice a year.
   - 1.3. 3rd B.D.S. Mid-term examination 3 hours paper.
   - 1.4. 3rd B.D.S. Practical test 2 hours assessment.
2. **Class-work(4th B.D.S.)**
   - 2.1. 4th B.D.S. Clinical performance assesssment.
   - 2.2. 4th B.D.S. Class test twice a year.
   - 2.3. 4th B.D.S. Clinical completion assessment.
3. **Class-work(Final B.D.S.)**
   - 3.1. Final B.D.S. Clinical performance assessment
   - 3.2. Final B.D.S. Class test twice a year.
   - 3.3. Final B.D.S. Mid-term examination 3 hours paper.
4. **Final examination at the end of the academic year(for 3rd B.D.S. and Final B.D.S).**
   - 4.1. One three hours theory paper(M.S.Q)10 Qs.
   - 4.2. One hour practical and clinical examination, and VIVA VOCE.
5. **Final Assessments**
   - 5.1. Performance in weekly practicals, tutorials and tests.
   - 5.2. Performance in the final examination.

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DEPARTMENT OF CONSERVATIVE DENTISTRY

Dr. Myint Myint San
B.D.S, M.D.Sc (Ygn), Cert: in Endodontics (Tokyo)
Postgraduate Lecturer, Acting Head

Demonstrator, Institute of Dental Medicine, Yangon - (1989)

Assistant Lecturer, Institute of Dental Medicine, Yangon - (1997)

Lecturer, University of Dental Medicine, Mandalay - (1998)

Postgraduate Lecturer, University of Dental Medicine, Mandalay - (2002-onwards)

History of the Department

University of Dental Medicine, Mandalay was established in October, 1998 at 62th street, Chanmyathasi township. Conservative Dentistry Course is commenced in third B.D.S (2001-2002) academic year. The subject is continued in fourth and final B.D.S. At beginning Dr. Myint Myint San took the responsiblity of the department as an Acting Head / Lecturer. Prof. Dr. Hla Minn acted as Professor and Head of the department in the year of 2002- 2006. Now, the department has one post graduate lecturer, acting head, one assistant lecturer and seven demonstrators.

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Group Photo of Academic Staff

The Staff

Professor / Head - Vacant

Post Graduate Lecturer / Acting Head

1. Dr. Myint Myint San, B.D.S, M.D.Sc (Ygn), Cert in Endodontics (Tokyo)

Lecturer

Vacant - 2 posts

Assistant Lecturer

1. Dr. Win Hlaing, B.D.S, M.D.Sc (Ygn)

Vacant - 2 posts

Demonstrators

1. Dr. Win Zaw Phone, B.D.S, M.D.Sc (Ygn)
2. Dr. Ei Ei Khin, B.D.S, M.D.Sc(Ygn)
3. Dr. Kyaw Mya Htun, B.D.S, M.D.Sc (M.D.Sc student)
4. Dr. Zar Zar Moon, B.D.S, M.D.Sc (M.D.Sc Student)
5. Dr. Kyaw San, B.D.S(Ygn)
6. Dr. Thet Su Mon, B.D.S (Ygn) (M.S.Sc Student)
7. Dr. Phyu Phyu Aung, B.D.S(Ygn) (On loan staff from Oral and Biological (Science)

Vacant - 1 post

Curriculum

3rd B.D.S	- One year course
4th B.D.S	- One year course
Final B.D.S	- One year course
Internship	- One month

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Method of Teaching

3rd B.D.S Lecture, Practical, Class tests	239 hours
4th B.D.S Lecture, Practical, Class tests	99 hours
5th B.D.S Lecture, Practical, Class tests	146 hours

Course Outline

3rd B.D.S

1. Introduction to Operative Dentistry
2. Cariology - Definition, Etiology, Diagnosis, Classification, Features.
3. Principles of cavity preparation - Nomenclature, Classification, Steps in Cavity Preparation, Features.
4. Cutting instruments used in Operative Dentistry - Hand cutting and rotary cutting instruments , Instruments Name, Formula, Grasps. Biological consideration cutting instruments.
5. Isolation and moisture control - Reasons for moisture control, techniques.
6. Dental Lining Materials - Criteria, different liners & bases, compositions, manipulation, properties, usages.
7. Matrices and Wedges - functions, types.
8. Dental Filling Materials - composition, manipulation, setting reaction, properties, advantages, disadvantages of Amalgam, Glass Ionomer Cement, Composite resin.
9. Dental Adhesive System - Principle of adhesion, categorization, components, mechanism, uses, techniques, clinical factors affecting adhesion.
10. Diseases of the pulp and periapical tissue - Causes of pulp & periapical tissue injury. Classification of pulp & periapical diseases, classification of orofacial pain, management of deep carious lesion. Introduction to Endodontics.
11. Systematic approach to oral diagnosis - Patient assessment, history taking, examination, investigations and special tests. Diagnosis and treatment planning.
12. Minimal Intervention Dentistry
13. Radiology & Radiography.

4th B.D.S

1. Introduction to SOC
2. Jacket crown, definition, indication, contraindication clinical assessment, preparation.
3. Full crown, definition, indication, contraindication clinical assessment, preparation.
4. 3/4 crown, definition, indication, contraindication clinical assessment, preparation.
5. Impression materials - classification, properties and techniques.
6. Gold inlay and casting technique.

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7. Waxes - properties, Uses
8. Investment materials and technique
9. Model and die materials.
10. Reivew on Adhesive Dentistry
11. GIC update
12. Composite Update
13. Noncarious lesions
14. Pin and post
15. Traumatized anterior teeth
16. Bleaching
17. Introduction to RCT

Final B.D.S

Endodontics Course

1. Introduction, history and scope of Endodontics.
2. Review on oro-facial pain, pulp and periapical problems & diseases, outline of management.
3. Endodontic decision - local & general factors. Choice of surgical & non-surgical Endodontics.
   Surgical Endodontics - techniques, indications & contraindication.
4. Root canal therapy.
   4.1. Rationale, objectives
   4.2. Diagnostic phase
   4.3. Preparatory phase
   Asepsis technique in Endodontics
   Access cavity preparation - objectives, guiding principles, steps, techniques, designs. Instruments used, calibration and numbering.
   Tooth length determination - root apex anatomy, objectives, techniques,
   Cleaning & Shaping - objectives, basic principles, methods & techniques.
   Irrigation and dentin softening agents.
   Intracanal medicaments - objectives, classification , properties.
   4.4. Obturation - objectives & reasons, materials & methods.
   4.5. Evaluation of endodontically treated tooth.
5. Problems encountered in root canal preparation.
6. Causes of Root Canal Therapy Failure
7. Restoration of Endodontically root treated tooth.

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Final B.D.S

S.O.C Course

1. Crown - Bridge (Extracoronal restoration)
   1.1. Introduction to SOC.
   1.2. Bridge - Definition, terminology, components of bridge, types of bridge, functions of bridge, classification, indication and contrandications, assessment of case and evaluation of abutment teeth.
   1.3. Pontic and retainer
   - types and choice of retainer.
   - pontic designs, types, requirements, materials used.
   1.4. Principles and stages of tooth preparation.
   1.5. Impression taking, construction of temporary bridge.
   1.6. Bridge designs and specific replacement of individual tooth.
   1.7. Clinical procedures for bridge work
   1.8. Causes of bridge failure.
2. Pin and post retained restoration
3. Selection and use of restorative materials in Operative Dentistry.
4. Restoration of mutilated tooth

Student Assessment

1. Class Work

1.1. Weekly Practical & Tutorial assignment.

1.2. Theory class tests including mid-term examination.

2. Final Examination at the end of academic years

3. Final Examination will be consisted of

3.1. Three hours theory paper (MSQ)

3.2. One hour practical test

3.3. Viva Voce

4. Final Assessment

4.1. 30% class work

4.2. 40% Theory marks

4.3. 20% Practical marks

4.4. 10% Viva voce marks.

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DEPARTMENT OF PERIODONTOLOGY AND PREVENTIVE & COMMUNITY DENTISTRY

Prof. Dr. Tin Tun Hla
B.D.S, M.D.Sc (Ygn), Dip. Med.Ed (Mdy), F.I.C.C.D.E
Cert: Clin Dent. & Periodontology (Japan)
Professor & Head

Dental surgeon: School Health , Hlegu - (1988-1991)

Demonstrator: Institute of Dental Medicine, Yangon- (1992-1996)

Assistant Lecturer: Institute of Dental Medicine, Yangon- (1996-1998)

Lecturer: Institute of Dental Medicine, Yangon - (1998-2002)

Post-graduate Lecturer : University of Dental Medicine, Mandalay - (2002-2007)

Professor/Head: University of Dental Medicine, Mandalay - (2007-onwards)

History of the Department

The Department of Periodontology (Dental Health) and Preventive & Community Dentistry was established in 2002. In the department, there are 2 divisions. Periodontology and Preventive & Community Dentistry.

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Periodontolgoy and Preventive & Community Dentistry
Group Photo of Academic Staff

Head of the Department

1. Professor Dr. Tin Tun Hla, B.D.S, M.D.Sc (Ygn), Dip. Med. Ed (Mdy) F.I.C.C.D.E, Cert. Clin Dent. & Periodontology.(Jpn)

Lecturer

1. Dr. U Tin Maw, B.D.S, M.D.Sc

Assistant Lecturer

1. Dr. U Soe Naing, B.D.S, M.D.Sc
2. Dr. Aung Kyaw Oo, B.D.S, M.D.Sc

Demonstrators

1. Dr. Maung Maung Myint, B.D.S,M.D.Sc
2. Dr. Yin Mu Thet, B.D.S, M.D.Sc
3. Dr. Soe Tun, B.D.S
4. Dr. Kyawt Thida Htut, B.D.S
5. Dr. Sann Thida Aung, B.D.S
6. Dr. Zizawa Aung, B.D.S

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Brief Description of Course
For Fourth Year B.D.S.
Periodontology

Total teaching hours for each student is 250 hours per year, including lectures, clinical practice, tutorials, mid-term and class tests.

Preventive & Community Dentistry

Total teaching hours for each student is 250 hours per year, including lectures, long trip field practice, tutorials, mid-term and class tests.

For Final Year B.D.S.
Periodontology

Total teaching hours for each student is 300 hours per year, including lectures, clinical practice, tutorials, mid-term and class tests.

Preventive & Community Dentistry

Total teaching hours for each student is 300 hours per year, including lectures, short trips field practice, tutorials, mid-term and class tests.

House Officer Training
Periodontology

Total duty hours for each house officer is 85 hours per year including advanced clinical practice, journal reading and case presentations.

Preventive & Community Dentistry

Total duty hours for each house officer is 85 hours per year including short trips field practice, journal reading and research case presentations.

Student Assessment

1. Class work

1.1 Field trip reports
1.2 Clinical performance
1.3 Mid-term assessment
1.4 Class test assessments
1.5 Viva-voce (On completion of departmental duty; bloc posting)

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2. Final examination held at the end of academic year with supplementary examination which is held 6 weeks later after 4th year final examination and 6 months later after final year final examination.

3. Find examination will be consisted of

(A) For fourth year B.D.S

(i) Three hours theory papers (MSQ) consisting of 3 sections

- 5 questions for Periodontology
- 3 questions for Preventive & Community Dentistry
- 2 questions for Preventive Social Medicine.

(ii) Practical Test

(a) Spot diagnosis of 5 periodontal cases and periodontal instrumentation.

(b) Assessment of field reports for Preventive & Community Dentistry.

(B) For Final B.D.S

(i) Three hours theory papers (MSQ) consisting of 2 sections for Periodontology and Preventive & Community Dentistry.

(ii) Practical Test

(a) For Periodontolgy - 1 long case, 3 short cases (spot diagnosis)

(b) For Preventive & Community Dentistry statistical analysis and interpretationof given data

4. Assessment criteria

Subjective type of both formative and summative assessments performed in the end of each academic term. Marks allocations are as follow:

Theory	- 50%
Class work	- 30%
Practical	- 20%

(Viva-voce is performed for distinction candidates and moderated students only)

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DEPARTMENT OF CHILDREN'S DENTISTRY AND ORTHODONTICS

Prof. Dr. Sun Sun Win
B.D.S (Ygn), M.D.Sc (Ygn)
Professor & Head

Dental Surgeon, Department of Health - (1988-1990)
Demonstrator, University of Dental Medicine, Yangon - (1991-1996)
Assistant Lecturer, University of Dental Medicine, Yangon - (1996-1998)
Lecturer, University of Dental Medicine, Yangon - (1998-2002)
Post - Graduate Lecturer and Head, University of Dental Medicine, Mandalay - (2002-2004)
Professor and Head, University of Dental Medicine, Mandalay - (2004-onwards)

History of the Department

University of Dental Medicine was establishd in 1998 and my department was established in 2002. In my department, there are two subdivisions (Children's Dentistry) Paedodontics and Orthodontics. Children's Dentistry is concerned with

- The care and treatment of all clinical manifestations of pathological process associated with the mouth of children (under 14 years of age).
- Building up a child's confidence and wish to accept dental treatment and
- Guiding the child and parent towards establishing good habits aimed at controlling oral pathology.

Orthodontics is branch of dentistry concerned with growth of the face, development of the occlusion and the prevention and correction of occlusal anomalies.

Although these two divisions are correlated, some differences exist in both theoractically and practically.

The number of existing teaching staff members in my department is only five.

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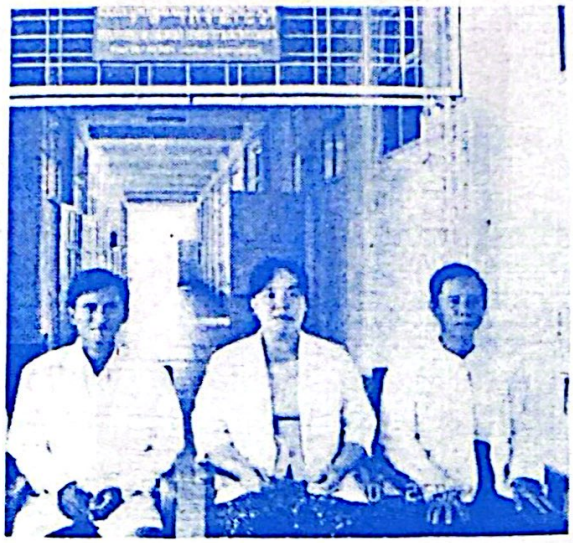
Group Photo of Academic Staff



The staff members are:

Dr. Naing Win Tun, B.D.S, M.D.Sc
Dr. Thet Naing, B.D.S, M.D.Sc
Dr. Myo Zin Oo, B.D.S, M.D.Sc
Dr. Zeyar Mg, B.D.S

The existing working establishment of Department of Children's Dentistry & Orthodontics

	Professor	A/P	Lecturer	Assistant & Lectuer	Demonstrator	Total
2002	-	1	-	-	-	1
2003	-	1	-	1	2	4
2004	1	-	-	1	2	4
2005	1	-	-	1	3	5
2006	1	-	-	1	4	6
2007	1	-	-	1	3	5

Curriculum

4th B.D.S	One year course
Final B.D.S	One year course

Method of Teaching

4th B.D.S	Lecture	- 80 hours
	Practical	- 120 hours
Final B.D.S	Lecture	- 160 hours
	Practical	- 160 hours
	Total	**177 hours**

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Course Outline

CHILDREN'S DENTISTRY

Child Patient Management

- The first appointment
- Techniques of behaviour management

Treatment of dental caries - preventive method

- Rampant caries (aetiology, clincial features and management)
- Dental health education
- Fluorides
- Pit and fissure sealants

Treatment of dental caries - operative methods

- Local analgesia
- Isolation of teeth
- Treatment of carious primary teeth
- Pulp treatment of primary teeth
- Treatment of carious permanent teeth

Treatment of abnormalities of the primary and mixed dentitions

- Normal development of occlusion
- Abnormalities of tooth eruption
- Abnormalities of tooth structure
- Abnormalities of tooth form
- Abnormalities of tooth number
- Intrinsic staining of teeth
- Premature loss of primary teeth and space management
- Crowding of erupting permanent incisors
- Carious or hypoplastic permanent first molars (poor long-term prognosis first parmanent molar)

Treatment of periodontal disease and common oral soft tissue lesions

- Prevention of trauma to teeth
- Viral, bacterial and mycotic infections of the mouth
- Miscellaneous soft tissue lesions

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Treatment of traumatic injuries to teeth

- Prevention of trauma to teeth
- Assessment and immediate treatment of traumatised anterior permanent teeth
- Intermediate and final treatment of traumatised anterior permanent teeth
- Trauma to primary teeth
- Consequence of traumatic injury to primary teeth
- Non - accidental injuries to children

The dental care of handicapped children

- Five categories of dentally handicapped child
- Prevention and managment for handicapped child

ORTHODONTICS

- Intoduction and Terminology
- Classification of malocclusion
- Etiology of malocclusion
- Growth and development of craniofacial complex
- Development of dentition and occlusion
- Biologic tooth movement and biomechanical tissue response
- Removable orthodontic appliance
- Orthodontic technique course
- Wire bending
- Appliance construction
- Orthodontic diagnosis
- Treatment planning
- Treatment of mixed dentition
- Treatment of permanent dentition
- Retention
- Introduction to clinic

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DEPARTMENT OF ORAL MEDICINE

Prof. Dr. Shwe Toe
B.D.S., M.D.Sc., Cert. in Advanced Oral Pathology (Tokyo)., F.I.C.D (U.S.A)., F.I.C.C.D.E
Professor and Head

Demonstrator, Institute of Dental Medicine, Yangon-(1993)
Assistant Lecturer, Institute of Dental Medicine, Yangon (1997)
Lecturer, Institute of Dental Medicine, Yangon (1998-2001) (Yangon Attached)
Lecturer, Institute of Dental Medicine, Mandalay (2001 - 2002)
Postgraduate Lecturer/ Head, University of Dental Medicine, Mandalay (2002)
Professor and Head, University of Dental Medicine, Mandalay (2004-onward)

History of the Department

University of Dental Medicine, Mandalay was established in October, 1998 at 62nd street and Thaikpan Road, Chanmyathasi Township.Oral Medicine course commenced in (2002-2003) academic year with 58, 4th year students. All students were taught to have acquired the knowledge on oral diagnosis, oral radiology and oral pathology.

Now, the Department has a Head (Professor), three assistant lecturers, and five demonstrators. It is facilitated by the present Head Prof. Dr Shwe Toe and the staff members. Oral Medicine subject is taught to 4th and final year students.

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Group Photo of Academic Staff

The Staff

Professor and Head

1. Prof.Dr.Shwe Toe, B.D.S., M.D.Sc.; Cert in Advanced Oral Pathology (Tokyo)., F.I.C.D (U.S.A) F.I.C.C.D.E

Lecturer

1. Dr. Zaw Moe Thein, B.D.S., M.D.S.c, Ph.D (HK), F.I.C.C.D.E
2. Vacant

Assistant Lecturer

1. Dr. Myint Shwe, B.D.S., Dip.D.Sc, M.D.Sc, Cert: in diagnostic oral and maxillofa cial pahtology (Srilanka)
2. Dr. Moe Wint Oo, B.D.S., M.D.Sc
3. Dr. San Win, B.D.S., M.D.S.C (On Laon)

Demonstrators

1. Dr. Khin Soe, B.D.S., M.D.Sc
2. Dr. Mu Mu Win, B.D.S., M.D.Sc
3. Dr. Aung Zay Latt, B.D.S.,M.D.Sc
4. Dr. Aye Mya Mya B.D.S. M.D.Sc (Condidate)
5. Dr. Naw May Phaw B.D.S

Curriculum

4th year B.D.S	-	One year course
Final year B.D.S	-	One year course.

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Method of Teaching

For 4th B.D.S

Lecture	50	hours
Practical	54	hours
Tutorial	10	hours
3 completion test (MSQ)	4	hours
2 practical test	2	hours
Total	**120**	**hours**

For Final B.D.S

Lecture	50	hours
Practical	90	hours
Tutorial	10	hours
completion test	4	hours
Total	**154**	**hours**

Course Outline

For 4th B.D.S

1. Oral Diagnosis

- Proper history taking, examination, diagnosis and treatment planning.

2. Developmental disturbances of oral and paraoral tissues

- Aetiology, clinical features and pathogenesis.

3. Dental caries

- Theories, pathogenesis and histopathology.

4. Diseases of the pulp and periapical tissues

- Etiology, pathogenesis and interrelationship.

5. Spread of infection

- Anatomical structure, focal sepsis, mode of spread and sequelae.

6. Physical and chemical injuries of the oral cavity

Physilolgy, histology and reaction to physical and chemical injuries and its clinical significance.

7. Regressive alteration of the teeth

- Non-carious lesions and its management

8. Medical conditions affecting dental treatment plan

- Dental evalution and management in medically compromised patients.

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9. Basic Radiology

- Ionizing radiation, types of films, different methods in taking Xrays, effects of therapeutic radiation, interpretation, hazards and ways and means to minimize hazards.

10. Wound healing

- Factors inflencing wound healing and healing of extracted and fractured wound.

For Final B.D.S

1. Premalignant lesions and conditions

Classification, etiopathogenesis, clinical, histological features and management.

2. Cysts of the oral and paraoral tissue

Classification, etiopathogenesis, clinical, radiological, and histological features.

3. Odontogenic tumors and odontome

Classification, etiology, pathogenesis, clinical presentation, radiological and histological features.

4. Oral ulceration and vesiculobullous lesions

Classification, etiology, pathogenesis, clinical, histological features and management

5. Disease of bone and TMJ

Etiology, pathogenesis, clinical presentation, radiological, histological features and differential diagnosis.

6. Diseases of salivary gland

Classification, etiology, pathogenesis, clinical, histological features and differential diagnosis.

7. Non-odontogenic tumous

Etiology, pathogenesis, clinical and histological features of benign and malignant tumors.

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8. Oral manifestations of pigmented lesions of oral cavity

Clinical features, differential diagnosis and management.

9. Immunology

- Oral manifestation, pathogenesis, clinical staging and dental management of HIV infection.
- Oral manifestation of autoimmune diseases.

10. Orofacial pain

Types, classification and management.

Student Assessment

(1) Formative assesment

- Class work
- Assessment of clinical records
- Assessment of test paper (mid-term)

(2) Summative assessment

- One examiation at the end of the academic year
- Final examination which consists of one three hour paper (for 4th B.D.S one and half hour)
- One two hour clinical performance
- Viva voce

For 4th B.D.S, it will be evaluted as the Clinical Dentistry (I) in combination with Oral and Maxillofacial Surgery

(3) Criteria for passing

- Satisfactory performance in class work.
- Satisfactory performance in final examination.

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DEPARTMENT OF ORAL & MAXILLOFACIAL SURGERY

Dr. Htay Htay Yi
Professor / Head
B.D.S., M.D.Sc.
Dr.Med.Sc. (Oral & Maxillofacial Surgery)
F. I. C. D., F.I.C.C.D.E.

Place	Designation	Period
School Health, Maymyo	Dental Surgeon	02.02.1984 - 1.04.1985
School Health, Meithila	Dental Surgeon	01.04.1985 - 9.05.1986
Rural Health Centre,Mawlamyaing	Dental Surgeon	09.05.1986-06.09.1990
Dept.of Oral & Maxillofacial Surgery, I.D.M.(Ygn.)	Demonstrator	06.09.1990-10.06.1996
Dept.of Oral & Maxillofacial Surgery, I.D.M.(Ygn.)	Assistant lecturer	10.06.1996-12.05.1998
Dept.of Oral & Maxillofacial Surgery, I.D.M.(Ygn.)	Lecturer	12.05.1998-15.05.2002
Dept.of Oral & Maxillofacial Surgery, I.D.M.(Mdy.)	PG Lecturer / Head	15.05.2002- 25.2.2004
Dept.of Oral & Maxillofacial Surgery, U.D.M.(Mdy.)	Professor / Head	26.2.2004- onwards

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History of the Department

Oral surgery is the part of the dental practice which deals with the diagnosis , the surgical and adjunctive treatment of the diseases , injuries and the defects of the human jaws and associated structures .

Oral and Maxillofacial is the subject regarding training , surgical judgement and technical ability necessary to treat a wide variety of benign and malignant tumours of head and neck , trauma of the face and facial bones , congenital and developmental defect of cervicofacial region and infection of head and neck area and to perform late or secondary reconstructive surgery for acquired deformities of cervicofacial region.

Departmental objectives towards the successful completion of the undergraduate course of Oral & Maxillofacial Surgery and the achievement of the knowledge and understanding of the scientific information which forms the basic principles of Oral & Maxillofacial Surgery , safe and effective care of patients and legal and ethical requirements for the practice of oral surgery. With the expectation of the skills to utilize their knowledge to solve the problems and engage in independent thoughts , undertake the care of patients in a safe and effective manner , recognize their clinical limitation and make appropriate referrals and work as part of the Health Care delivery team .

The department is one of the two Oral and Maxillofacial units under DMS in Myanmar. The other two units are under the DOH. The department is established along with the University of Dental Medicine , Mandalay since 1999. The staff of the department performs not only teaching but also operating of the oral and maxillofacial cases . Foreign team from Japan (JCPF - Japanese cleft lip and palate foundation) visits annually since 2002 and performs joint operation on cleft lip and palate cases.

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Group Photo of Academic Staff

The Staff

Professor & Head	Dr. Htay Htay Yi
Postgratuate Lecturer	Dr.. Myint Wai
Lecturer	Dr. Aung Lwin Oo
	Dr. Win Naing
Assiastant lecturee	Dr .Lin Phay than
	Dr.. Myo Naing
	Dr. Myo Thet
Demonstrator	Dr. Thura Myint
	Dr. Aung San Htat
	Dr. Soe Moe Aung
	Dr. Khin Mar Hlaing
	Dr. Thidar Soe

Cuuriculum

IV B.D.S.	One year course
V B.D.S.	One year course

Teaching schedule

IV B.D.S. - Lecture - 85 hours - 55hours before midtem , 30 hours before final exam (3 hours/week)

- Clinical - 45 hours - Exodontia - 3 hours / day for 3 days/ week in 5 weeks
- 15 hours - Surgical principles -1hour/day for 3days/ week in 5 weeks

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V B.D.S. - Lecture - 85 hours (50 hours before midterm , 35 hours before final exam)(3 hours/week)

- Clinical - 75 hours - Exodontia - 3 hours / day for 5 days/ week in 5 weeks
- 20 hours - Surgical principles - 1 hour / day for 4 days/ week in 5 weeks

Course Outline

Lecture Course Outline

IV B.D.S. Lecture

1. History taking

Case taking : Personal Data, Complaints, History of Present Illness, Past Medical History, Past Dental History, Family & Social history

2. Physical examinations

Inspection, Palpation, Percussion, Probing, Auscultation

3. Principle of Surgery

Asepsis, Preparation of patient, Preparation of instruments & equipments, Anxiety free - protocol, Adequate anaesthesia, Basic principles of incision, Types of mucoperiosteal flaps, Principles of flap design, Atraumatic surgery, Types of drainage, Definition of suture & suturing, Different needle holder & needles , Types of suture materials & suturing technique, Types of knots, Types of suturing techniques, Principle of wound care

4. Surgical Crescendo

onset, pathology, tissue origin

5. Examination of pain

Provocative & palliative factors, quality, region, severity, timing

6.Examination of ulcer

Defination of ulcer(Primary, secondary, specific), Local examination, General examination- neck examination, neck level, Different types of ulcer- characteristics, management, investigation

7. Examination of lump

Local examination-site-size-shape-surface-surrounding-color-consistency-pulsation-pressure effect, General examination

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8.Adjuntory test

Listening-inspection-palpation - bimanual- others ;percussion , probing, prophylaxis, flossing, transillumination, vitality test, diagnostic anesthesia, aspiration, fluctuation, emptying sign, blanching, Nikolsky's sign, Double ring test, nose blowing test etc.

9. Special investication

Radiographs and other imagings – essential views for mandible , maxilla and teeth - Culture & sensitivity- Biopsies – different types , indication and contraindication , surgical pathology - Biochemical analysis

10. Local Anaesthetic Injection techniques

Types of anaesthesia- anaesthesia for maxillary teeth- anaesthesia for mandibular teeth- indications and contra-indications- armamentarium- complications.

11. Exodontia

Indications and contra-indications- armamentarium- complications , Simple & cvomplicated exodontia, healing of extracyed socket , multiple extractiobn , post - extraction management.

12.Haemorrhage

Types of hemorrhage – according to vascular, time of hgm, amount of blood loss, clinical features-perioperative hemorrhage, local control-prervention – history taking

13. Shock

Types of shock,pathophysiology of shock,general management

14. Infection

Microbiology of odontogenic infection-Bacterial infections-Fungal infections-Viral infections- Principles of treatment of odontogenic infection-cellulites & abscess-criteria for referral indication for C & S -reasons for treatment failure, Principles of prevention of infection (wound, metastatic), Indication for parenteral regimen-Fascial spaces (primary & secondary)-Ludwig's angina, Cavernous sinus thrombosis-Cervical fascial spaces-Cancrum oris-Osteomyelitis

15.Fracture or the mandible

Surgical anatomy of mandible and muscles attached to it- Bone healing – primary, secondary.

Aetiology of fracture- Classification -types ,site, side , causes, number-Facvourable & unfavourable- General & local examination- Radiological assessment – essential, special view, interpretation- Principles of treatment- reduction – open & closed , fixation – different types, immobilization – different types, period-Complications

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16. Medical emergencies

Loss of conciousness-severe chest pain-difficulty in breathing-seizures-anaphylaxis-basic life support , air-way management

17.Management of Medically Compromised Patient

Interrelationship of medicine & dentistry-history, physical and laboratory evaluation-holistic care.

Evaluation & management of patient at risk for infective endocarditis-SBE-The patient undergoing cardiac surgery -The patient who has undergone cardiac surgery

Evaluation & management of patient with cardiovascular diseases-Artherosclerosis-Coronary are terial diseases-Arrhythmia-Bradycardia

Evaluation & management of the patients with endocrine disorders-Diabetes Mellitus- Adrenal gland disorders & steroid therapy-Thyroid disorders- Pregnancy

Evaluation & management of the patients with pulmonary diseases-Asthma-COAD- TB

Evaluation & management of patients with gastrointestinal diseases-Peptic ulcer-Hepatitis - Cirrhosis

Evaluation & management of the patients with blood dyscrasia & bleeding diathesis-Anemia- Bleeding disorder-Hematologic malignancies.

Evaluation & management of the patients with genitourinary diseases -Chronic renal failure, dialysis & transplantation-Sexually transmitted diseases

Evaluation & management of the patients with neurologic disorders -Seizures-Cerebrovascular diseases

Evaluation & management of the patients with neoplasm -Complications of cytotoxic chemotherapy-

Complications of radiation therapy in head & neck cancer.

Final B.D.S. Lecture

1. Pre operative assessment

Assessment of general condition-Assessment of local condition , Assessment of investigation results, Assessment for risk of surgery – ASA,APACHE II, Assessment for risk of infections.

2. Impaction & embedded teeth

Definition , Possible causes, Frequency, Classification of impaction – Pell&Gregory, Schiller, Winter, Killey & Kay, Assessment of impaction – clinical radiological- Indication & contraindication for removal, Sequalae of untreated infection due to impacted tooth, Principles of surgical removal, Complications.

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3. Diseases of TMJ

Surgical anatomy of TMJ- diseases of TMJ –developmental – aplasia , hypoplasia,inflammatory, traumatic, infective , rheumatoid , osteoarthrosis,functional disorder-PDS, condylar hyperplasia,internal derangement, Mobility disorder-dislocation – types, causes, clinical features, management- limitatiom of the mouth opening – ankylosis,trismus, lock jaw - causes, management, examination & investigation of TMJ

4. Diseases of salivary gland

Surgical anatomy of major & minor salivary glands- Salivary content and function - Inflammatory causes Bacterial, viral, sialadenitis of minor & post irradiation,traumatic, Obstruction phenomenon Sialolithiasis, mucocele, ranula,Tumors – histo-pathological classification, Sjorgren's syndrome & related disorder- Surgical management-Complications.

5.Cystic lesions of oral cavity

Definition , Epithelial cyst , Odontogenic cysts, Non-odontogenic cysts, Nonepithelial cyst, Primary bone cyst, Cyst of soft tissue , Cystic lesions / tumors- Differential diagnosis- Surgical management - Enucleation,marsupialisation , Complications.

6.Congenital deformities of orofacial region

Development of face , Etiology , Epidemiology , Classifications of cleft of orofacial regions – lip, palate, facial , Working classification , Symbolic classification , Craniosynostosis- Syndrome associated with clefts, Multidisplinaries- Role of dental surgeon in cleft management.

7. Fracture of the middle third of facial skeleton

Surgical anatomy of middle third of the face- classification of types of fractures- Lefort I, II, III,malar complex, nasal complex- clinical manifestations of various type of fractures- Radiological -manifestation , Campbell'slines , Primary assessment in trauma case-ABCDE- surgical management , complications.

8. Disease of maxillary sinus of dental origin

Surgical anatomy of maxillary sinus , Diseases of the maxillary sinus , Surgery involving maxillary sinus , Maxillary sinusitis acute and chronic , Examination – clinical, radiological, CT, MRI, Endoscopy (FESS – Functional endoscopic sinus surgery), Oroantra communication causes, sign & symptom, management, prevention , Surgical Management; Caldwell Luc operation, Closure of OAF.

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9. Management of Bleeding

Bleeding – systemic and local causes, Specific management – local and systemic, Blood transfusion, ordering of blood hazard, different types (massive, autologous), Blood fraction- Blood substitutes, Replacement – material, route, rate, vol;

10. Management of shock

Pathophysiology of shock, Specific management, Acute phase response, Systemic inflammatory response, Septic shock, Acute respiratory distress syndrome, Multiorgans dysfunction syndrome

11. Preprosthetic surgery

Basic correction, Soft tissue management, Ridge augmentation, Sinus lift, Vestibuloplasty.

12.Tissue transplantation & implantology

Autogenous type, Allogeneic type, Xenogeneic type, Various types of implant, Pre-operative evaluation, Surgical phases; implant placement, implant uncovering-complications.

13.Wounds & injuries of orofacial region

Types of wound, Dentoalveolar injuries , Principles of wound management – preparation, conservative policy on face, tension, stitch craft , no overlapping, eversion, wound support, STO Complications - hypertropic scar, keloid, unpleasant scar, dog ear, healing beyond surgeon's control , Factors affecting the wound healing

14. Medicolegal aspects of trauma

Simple hurt , Grievous hurt , Esthetic defect , Functional defect.

15. Skeletal diseases

Developmental disorder osteogenesis imperfecta, osteopetrosis, Cleidocranial dysostosis, Torus palatinus,Torus mandibularis, Exostosi, Inflammatory disease of the bone - Osteomyelitis, Reactive disorder of bone, Osteoporosis , Acromegaly , Primary hyperparathyroidism, Central giant cell granuloma , Fibro-osseous lesion – Fibrous dysplasia, ossifying fibroma, Tumour of bone.

16.Oral tumors

Odontogenic tumor benign & malignant, Non-odontogenic tumor , Differential diagnosis-Surgical management:

17.Oral cancer

SCC- prognosis factors , Staging , Multimodalities of treatment , Role of dental surgeon in management of oral cancercontrolling, preventing, supportive therapy

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18. Oncology

Hypothesis of causes of cancer, Carcinogenesis, Surgical therapy- principles, tumour ablation, neck dissection, Radiation therapy- different types, principles, side effect, Chemotherapy- chemoagent in head & neck cancer, principles, side effect, New horizon in treatment of cancer.

19. Neuralgia & neuropathy of pain

Neuralgia- Traumatic origin of neuropathology , Non-traumatic origin of neuropathology, Surgical management.

20. Orthognathic surgery

Evaluation of dentofacial deformities, Mandibular excess-Mandibular deficiencies-Maxillary excess-Maxillary hypoplasia or deficiency, Presurgical management, Surgical management, Postsurgical management, Complications

21. Distraction Osteogenesis

Indications and objectives, Assessment, Various types of distractions

22. Antibiotics prophylaxis in surgical practice

Principles of prophylaxis, Prevention of wound infections, Prevention of metastatic infections.

23. Medical writing

Referral, Surgical report, Informed consent, Postoperative notes.

24. Postoperative Care

Care of the patientrecovery phase, care on the ward, care after hospital discharge, day care surgery , Problems in postoperative patients.

25. Interpretation of radiographs

Radiographic anatomy, Radiodensity changes, Radiolucent findings, Radioopaque findings Changes in contour.

26. Armamentarium

Operating room, Surgical instruments.

Clinical Course Outline

IV B.D.S. Clinical

1. Nerve supply of the teeth and periodontium
2. Anatomy - Root morphology of the teeth , maxilla and mandible ,V CN and it's division
3. Exodontia - Pre-exo - general status , Indication & contra - indication for exo , plan , Exo - gloving , forceps , Post-exo - care, instruction
4. L A technique , LA for tooth and teeth
5. Prescription writing
6. Complications - L A complications , Exo complications
7. Abbreviation
8. Elevation

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9. Instruments for simple and complicated exodontia
   suturing technique - horizontal & vertical matress, continuous blanket, running/ subcuticular and hand tie
11. Different flap designs

Final B.D.S. Clinical

1. Machine & instrumentsfor oral and maxillofacial surgery
2. Donning, gowning & patient's preparation
3. Investigations
4. Referral
5. Patient's chart
6. Tie - Tie over, Vessel tie, Stay suture (glove, tube, suction drain)
7. Wiring - MMF, Essig wiring ,Loop wiring , Other wiring - Intraosseous, circumferential, Gunning splint, Arch bar
8. Medicolegal consideration
9. Instruments for simple and complicated exodontia
10. Suturing - armamentarium, materials, technique - interrupted, figure of eight, STO ,other suturing technique - horizontal & vertical matress, continuous blanket, running/ subcuticular and hand tie

Method of teaching

Lecture - PA system, LCD projector
Demonstration - simulation, chair - side, bed - side

Student Assessment

IV B.D.S.

Class work - Theory class test - five times a year
Practical test - Local technique (before mid-term)
Examination - Mid term examination - at the half semister
Theory paper - 3 hours (M.S.Q.)
Final examination - at the end of academic year
Theory paper - 3 hours (M.S.Q.)
Practical - Suturing & Instrument test-1/2hour
Viva voce

V B.D.S.

Class work - Theory class test - six times a year
Practical test - Exodontia (before mid-term)
Examination - Mid term examination - at the half semister
Theory paper - 3 hours (M.S.Q.)
Final examination - at the end of academic year
Theory paper - 3 hours (M.S.Q.)
Practical - Bed side - Long case - 1 hour
Instrument test- 1/2 hour
Radiological diagnosis test-1/2hour
Viva voce

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UNIVERSITY OF DENTAL MEDICINE , MANDALAY

HAND BOOK

2007-2008

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